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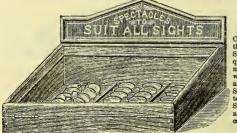
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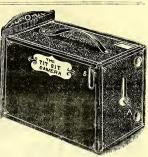
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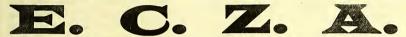
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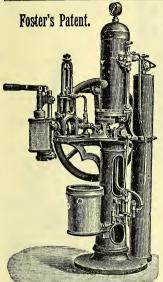
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The Chemist and Druggist

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SATURDAY, MAY 14, 1892.

Partnerships Situations Vacant. Situations Wanted. Miscellaneous

A Copy of this Supplement is inserted in every number issued of "The Chemist & Druggist."

PLEASE NOTE.

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Advertisements must be prepaid. Remittances by post may be made in stamps, or by postal order made payable to "EDWARD HALSE," and crossed MARTIN'S BANK (LIMITED). To ensure prompt attention address all communications, endorsed "Supplement," to The PUBLISHER of "THE CHEMIST AND DRUGGIST, to The PUBLISHER of "THE CHEMIST AND DRUGGIST."

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PRESCRIBING, Dispensing, and Mixed Retail, in an Agricultural district, Market Town; returns about £700, could be rapidly and ea-ily increased; large shop, 8-roomed house, warehouse, and garden; great sacrifice to an immediate pure naser; fine scope for a good business man. M. F. C., Office of THE CHEMIST AND DRUGGIST, 42 Cannon St., E.C.

DEATH VACANCY (Berkshire).—Good-class Retail, Dispensing, and Prescribing Business, returning £700; large shop, well fitted and stocked; very convenient house, with large garden; best position in small market town; price £400, or offer; immediate sale desired. "Exors.," Office of THE OHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

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ANCASHIRE. - Best position in large town; old-established Light Retail and Dispensing Business; double-fronted shop, on lease, recently fitted in first-class style; returns over £1,000, capable of increase; to old stock; your prices obtained patent trace small; satisfactory resions for selling. Address, 46 :, Office of The Chemist and Druggist, 42 Cannon Street, E.C.

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LONDON, S.W.—Death Vacancy.— For immediate sale, old-established Business; same hands 29 years; a long lease at a low rent; well-stocked, nicely-fitted shop; returns £420; price £450. Apply, 100 Fulham Road, South Kensington, S.W.

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ENT.—Returns £200 and increasing; Dispensing, Retail, and Prescribing, in large village; unopposed; established as a branch two years and capable of considerable development; would suit beginner with small capital; good opening for Dentistry; strictest inquiry invited, and a reasonable offer will not be refused; rent nominal Address, A. P. S., 281 Essex Road, London, N.

GENUINE Retail Drug Business for sale: established 20 years ago by present proprietor, who is retiring from retail; long lease, as lockup shop, or with house; 10 minutes from London Bridge, Surrey side; thickly populated; very brisk ready-money drug trade, with two or three good proprietary lines. Address, "Practical Chemist," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street. E.C.

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Pharmacy, returning £13 weekly, but canable of taking £30 by a Pharmacy, returning £13 weekly, but capable of taking £30 by a good pushing man; bandsomely fitted double-tronted shop, in main thoroughfare, and superior modern dwelling-house, containing dining and drawing rooms, parlour, shop, consulting room, five good bed rooms, large kitchen (with excellent range); all enclosed retire yard, private back entrance, &c., &c.; rent only £40; no opposition; densely populated neighbourhood; no Agents; price £400. Address, "Chemist," Medical Hall, 135 Lawrence Hill, Bristol.

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WANTED, in the Midland or Southern Counties, a reliable Retail Drug Business, returning £800 to £1,000. Full particulars, in strict confidence, to A. Z., Office of THE CHEMIST AND DRUGGIST, 4 ' Carnon Street, E.C.

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JUNIOR, at once. Particulars to Judd & Co., Lcamington.

WANTED Assistant (indoors) for smart Retail; good Counterman and Dispenser. Freke, 378 Coldharbour Lane, Brixtou, S.W.

WANTED, early in June, a qualified and competent Assistant, for Branch. Apply, with full particulars, Lloyd, Chemist, Colwyn

A SSISTANT (Junior) for a good Dispensing and Retail business, immediately. Full particulars to J. Baily & Co., Chemists, Margate,

MPROVER: outdoors; good opportunity for gaining experience in Disponsing. Apply, with full particulars, to Hughes, Chemist.

PARIS.—Assistant wanted, immediately who can speak French; one knowing French pharmacy preferred. Apply to M. Fongerat. 91 Avenue Kleber, Paris.

WANTED, at once, an Assistant, capable of taking charge of a Drug Store in connection with a grocery business. Full particulars to 11. Martleet, Totland Bay, I.W.

WANTED, Junior (outdoors), well up in Dispensing and Compter. Apply, stating age, experience, and salary required, to H., care of Goodall, Backbonse & Co., Leeds.

N ATHANIEL SMITH & CO., Cheltenham, require an indoor Assistant of good experience in Dispensing; qualified; applicants will please state height, age, &c.

WANTED a qualified Manager; married; to live on premises; Mixed business: prescriber and tooth extractor es emial. Send reference and terms to H. B. Pare, Bolton,

WANTED, immediately, Junior of Poper ver in a Light Return hastmess with some Who esale, o and or pre erred; an interview destruble. B. Drew & Co., 277 Borough High Street, S.E.

AN Assistant, about 21 years of age, accenstomed to a country business. State full particulars as to age, salary, experience, with reference, to H. Barton, Pharmaceutical Chemist, St. lves, Hunts.

A QUALIFIED man, as Assistant (indoors); age not under 50; salary small: duties light. Apply. by letter, stating full particulars and lowest salary, to H S., t2 York Road, Battersea, S.W.

UNIOR or Improver, accustomed to a Mixed Country Retail business. Apply, stating salary required, and enclosing carte, to Arthur Carton, Chemist and Druggist, 18 Long Causeway, Peterborough.

UNIOR or Improver, at once; must be reliable and trustworthy; also respectable and well-educated Youth as Apprentice (indoors); moderate premium; home comforts. R. Prist, Ohemist, Roath, Cardiff.

WANTED, June 1, an Improver, aged 18 to 19, who can be recommended (indoors) for a good-class country trade with some light agricultural business, hon s easy. Address, Hobson Key, Chemist, Mon-

EARLY in June, for Mixed Ountry trade; thoroughly competent and reliable Assistant; underiable references will be required. State age, salary (indoors), and full particulars, S. Smith, Chemist, New

EDWIN HALL, Weston-Super-Mare, requires a qualifier Assistant as senior, indoors. Apply, stating age, height, satary required, and full particulars as to experience, and enclose carte, which will be

AN energetic Traveller, having experience among the Medical Profession, required immediately. Apply, with full particulars, to Wm. Forbes & Co. (late Thomas Hopkinson & Co.), Park Street,

WANTED, for the beginning of June, Junior or Improver for Ligot Retail Dispensing business in the Midlands; knowledge of H meopathy preferred. Apply, with usual particulars, T., c/o Messrs. Evans, Son & Co., Hanover Street, Liverpool.

WANTED, qualified Assistant, to act as Manager for widow; Light Retail and Prescribing, must be steady and trustworthy; state salary (me cors), and when at liberty. Address, Dr. Macanlay, Kingston

OWESTOFT .- By May 30, qualified Assistant; good references indispensacie; letters unabswered in three days considered declined, recent photograph desired it practicable. Apply, Clarke, Lowestof., Pharmaceutical Chemist and Dental Surgeon.

ANTED, at once, Assistant for a few months; liberal time allowed for study and lectures, comfortable home; easy access to the Square and Schools; good class Retail and Dispensing business. Apply, statiog age, &c., to J. Hessell, 143 Highgate Road, N.W.

Senior in a good-class country business; one seeking a permanency preferred. Apply, with tall particulars as to age, height, experience, salvy required, and enclose photo, Dixon, Chemist, East Grinstead.

PART-TIME.—Wanted, a good Junior for Wednesdays and Fridays. from 2 P.M., and alternate Suodays from 6 P.M., London, S.E., near Wills. Please state age and terms (which must be moderat), to G. M. D., Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

A T ONCE, Junior (iudoors); about 21; good-class Country busines, seaside; time for study and assistance given for Minor; no Sunday duty; state age, height, salary, and usual particulars, enclosing photo (to be returned). F. O., Office of The Ohemist Atd D. Judges, 42 Campon Street, E.C.

SOUTH AFRICA.—Wanted, an Assistant holding Minor qualification; age not nuder 25; good Dispenser. 3 years' agreement, second-class passage paid ont. Apply, "Export Department," S. Maw, Son & Thompson, Aldersgate Street, London. Personal interview

WANTED, at once, or as early as possible, a Young Man, with some knowledge of Dispensing, wishing to improve bimself; business consists entirely of good class dispensing, with no retail; small salary; gold home offered. Write Manager, Medical Dispensing Company, Hotel Street, Leiceste.

WANTED, total distribution of Mixed business, a competent Assistant; indoors, must be a good Dispenser and Counterman; satisfactory references required, afternoon and evening off weekly, no sunday duty. Apply, stating age, salary required, reterences, &c, to J. B., Chemist, 10 Albert Road, Widnes.

E ARLY in June, Junior Assistant (indoors); accustomed to Presenting and Dispensing and General Country Ectail; one only kept. good rolerences indispensable State age, height, an ary required, and usual particulars, with recent photo (to be returned), to A. Worts, hemnet, Harwich, Essex.

MPROVER wanted in a large good-class Dispensing and General business; must be active, industrious, and intelligent, able to wrap op quick y and neatly and to serve at centour when required; no one ored apply who cannot produce unexceptio so references. Full particuare, enclosing carre, John Kemp & Co., Ohea . t., Lincoln.

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WANTED, a Junior Assistant, to take charge of Drug side in a large Country business. Ison & Sons (Limited), Wellington,

MPROVER or Junior wanted in a good-class Mixed business: time allowed for study and assistance given; vacancy also for an Apprentice. Apply, H. Oliver, Ohemist, West Malling, Kent.

AT ONCE.—Junior (indeors): must be a fair Dispenser and write good hand: no Sunday or night duty. Apply, enclosing carte, with usual particulars, to Lewis' Drug Store. 22 & 21 Great Portland Street, W.

QUALIFIED Assistant wanted; must be accurate Dispenser and good Counterman. Apply, by letter in first in tapon statis good Counterman. Apply, by letter in first in tance, stating age, experience, salary required, and references, to "Manager," London Cooperative Supply Stores, Finsbury Park, N.

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A SSISTANT (24); Minor; outdoors preferred. E., 1 Cresswell Street, Liverpool.

OCUM-TENENS; disengaged. "Æsculap.." 32 Laurel Grove,

A SSISTANT, with good varied experience; references. B., 11 East-field goad, Lonth.

JUNIOR; 31 years' experience; disengaged. James, c/o Morgan.

JUNIOR; aged 19; tall; 4 years' experience. Parrott, King Staithe Square, King's Lynn.

TEMPORARY: disengaged till end of May. "Ohemicus," 45 Fal-

ASON, Chemists' Temporary Manager, Walton Well Road, Oxford; disengaged for a week.

OCUM or Manager (35); qualified; experienced. J., 315 Queen's Road, Upton Park, E.

OCUM-TENENS. or Temporary Manager; 24; Major. "Alpha," 22 Dodoington Grove, S.E.

TEMPORARY or Manager; qualified; disengaged, 18 Elvin Terrace, East Dereham.

CCUM-TENENS or temporary; over 8 years' experience. F. H. Slynn, 4 High Street, Rhyl.

OCUM-TENENS; aged 25; diseagaged "Extractor," 2 Horton Street, Lewisham, S.E.

JUNIOR: disengaged; good experience. "Alpha," Park Villa, winton Street, Ryde, LW.

A SSISTANT; Wholesale or Retail (23); 7½ years' experience. Clapham, cranswick, Hull.

AS Assistant; qualified; aged 24½; state salary. "Minor," 120 Kennington Park Road, S.E.

JUNIOR (temporary); 7 years' experience; disengaged. "Opus,' 28 Victoria Road, Kilburn, London.

A SSISTANT (24); disengaged; unqualified; good experience. G., 50 Adelaide Street, Sonthport.

A SSISTANT (23); diseagaged; ontdoors; London preferred. Day, 77 Coilege Place, Camden Town.

JUNIOR (29h); 4 years' good experience; disengaged; reference. Particulars from Cleave, Poutefract.

CUM or Assistant (qualified); disengaged; low terms. B. C., 45 Adolphus Street, Deptferd, London.

JUNIOR; qualified; disengaged: aged 23; outdoors preferred. "Chemious," Whittars, Brodweir, Bristol.

A SSISTANT (24); qualified; abstainer; Lancashire or Yorkshirn preferred. Raine, Bolton Road, Darwen.

WANTED. situation in Wholesale; 8 years' Retail experience; 24. "Vaseline," 3 Burton Street, Leicester.

JUNIOR: 19: 5 years' experience; London preferred; disengaged. "Stabilitas," Princes Buildings, Bath.

TEMPORARY Mauager or Senior; qualified; good references "Locum," Trinity Square, Llandudno.

EVENING Engagement; abstainer: speaks French; excellent references. "Statim." 165 Grav's Inn. Bood. ences. "Statim." 165 Gray's Inn Road.

A SSISTANT; qualified: 21½: 6½ years' experience; height 5ft 7 in.; disengaged. Arthur Tremeer, Barustaple

BRANCH Msnager: qualified; 37; married; references. "Associate" 14 Preston Street Viels ciate," 14 Preston Street, Kirkham, Lancashire.

EVENINGS: qualified; experienced; 26; or partial board in exchange. W., 36 Richford Street, Hammersmith.

HOME or Abroad: qualified; London experience; tall. "Omega."
46 Robert Street, Upper Brook Street, Manchester.

PART-TIME Assistant or Outdoor Dispenser, to Surgeon; good references. Barker, 120 High Street, Shoreditch E.

As Locum Tenens or Permanent Manager: qualified. Present address, Manager, c/o Mr. Leonard Smith, Penton, near Pontypridd.

RANCH Manager or Outloor Assistant; 24; disengaged Whitsun; qualified. W., 19 Jerdan Place, Walbam Green, Fuibam, S.W.

IMPROVER: 18 months' experience in first class; passed Pre liminary; nearly 18; tall; disengated. "Alpha," Christohurch.

PART-TIME engagement; few hours daily, or 2 or 3 days weekl, : City, or near : Dispensing preferred. S., 9 Duncan Terrace, N.

UNIOR or Improver seeks engagement; satisfactory references; London preferred. 4 24 Upper Tollington Road, Holloway, N.

TEMPORARY or Locum; qualified; aged 25; good reterences; Lonoon experience. Strickland, 35 Yerbury Road, Holioway, N.

A S Surgeon's Dispenser; 4 years' London experience. London pre-ferred; disengaged. Whitehead, 15 Nettleton Road, Gloucester.

QUALIFIED Assistant and experienced Dispenser seeks re-engagement; town or country. "Minor," 4 Alexandra Road, Holloway.

A SSISTANT; good class Dispensing and General experience; 24; 5 feet 10 inches. "Frank," care of A. Berridge, Chemist, Leicester

E VENING engagement (after 6:30) wanetd, with Surgeon or Chemist: experienced Dispenser. "Vesper," 36A High Street, Stoke Newing-

JUNIOR, for a few months; London preferred; disengaged June 1st; 5 years' experience. F. G. H., 1 Landdowne Crescent, Bourne.

MPROVER; good-class husiness: 18 menths' good-class experience: aged 18; disengaged. J. B., c/o Warrick Brothers, 18 Old Swan

ANAGER or Assistant; outdoors; permanency; qualified; g nd references; or Locam-tenens; disengaged. Baggs, 23 Falmouth Road, S.E.

AS Assistant, in good house; Scotch; qualified; good experience; tall; 22. 47/15, Office of The Chemist and Druggist, 42 Cannon

A SSISTANT; Prescriber and Dispenser; qualified; Leeds or Bradford district preferred. "Minor," Greenbank, Gledholl Road, Huddersfield.

AS Improver; just completed apprenticeship: town preferred; personal interview; first-class references. S. W. A., I Wroughton

TEMPORARY engagement wanted while looking out for hetter: smail salary. "Tetricus," Office of The Chemist and Druggist, 42 Cannon Street, E.C.

AS Junior Assistant or Improver (qualified); aged 24; 2 years' practice since qualified. Apply, stating salary, &c., to J. T. Bayliff, Kirkby Lonsdale, Westmorland.

SITUATIONS WANTED-Continued:

CCUM-TENENS; 35: qualified; abstainer; dlsengaged. "Minor," 8 Oastle Street East, W.

PART-TIME; 8 years' experience; abstalner. "Beta," c/o Maurice Williams, 27 Chancery Lane.

BOTTLER and Assistant : tockkeeper; 20; outdoors; good know-ledge of Latiu. "Haustus" 238 Brixton Roai.

ANAGER. or Manager of Branch; aged 30; varied experience.
Address, "Chemicas," 12 Chesterfield Street, King's Cross, N.

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IMPROVER; with good Dispensing experience, seeks part-time engagement (outdoors), about eight hours daily; North London preferred. T., 4 St. Thomas's Road, Finsbury Park.

MANAGER, or Senior: outdoors; 19 years' experience; qualified; married; good references; Prescriber; Minor. 46/14, Office of The Ohemist and Drugdist. 2 Cannon Street, E.C.

DCUM-TENENS; town or country; aged 36; or open to accept position as Manager. Apply for vacant dates "Sen, Office of The Chemist and Druggist, 42 Cannon Street, E.O.

LOCUM-TENENS and Temporary Manager; town and country experience; qualified; steady and reliable; highest references. ·· Extractor," c/o Mr. Mauby, Chemist, Tenterden, Kent.

As Branch anager or Assistant; accustomed to Dispensing, Mixed, or Shipping business, and used to Colliery districts; 19 years' experience. "Chemicus," 53 Richard Street, Cathays, Cardiff.

A TRAVPLLER, with large connection amongst Chemists in London and suburbs, seeks additional commissions. "Pharmakus," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E C.

QUALIFIED (36); abstainer; exceptional references; first-class lown and country experience; Prescribing and Dispensing; salary rea onable. "Aqua" Office of THE CHEMIST AND DRUGGIST, 42 Cannon

A'S Branch Manager or Assistant; 5 years' management in last situation: good Prescriber, Dispenser, Tooth Extractor (own instruments); married; aged 28; height 5 ft. 7 in.; good references. Mollard, 23 Long Lane, E.C.

PHAR WACIST (French and German diplomas), native of Alsaco, with excellent references, requires permanent situation in a good English Pharmacy where he may learn English: moderate salary. 'Alsacien," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E. J.

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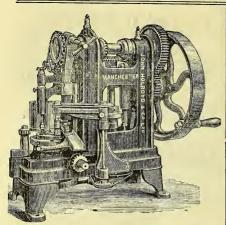
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bu	OILLIES CHE	torrowing no	e or brices to	the trade.	
No.		Outside diam	Depth	Per gross	
1 2 3 for 1 4 7 1 5 7 8 8 9 7 4 10	12 pills	Outside diam 1-1 in.	1 in. 1 ;; 1 ;; 1 ;; 1 ;; 1 ;; 1 ;; 1 ;; 1 ;	2 10 0 2 10 0 2 10 0 3 2 0 3 2 0 3 8 0 3 8 0 4 1 0 5 7 0 5 7 0 6 4 0 8 0	
15		24 "	18 .,	0 10 0	
16		3	13	0 10 10	
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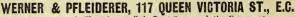
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Size 3, Type I, for 1-lb. Mass

In 2 lb. cakes in cases of about 130 lbs 1 " " 130 "

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In round oakes in 2 lb. parcels, or in oblong cakes leose. In 1-oz. cakes in 2 lb. parcels. Plain blocks of $7\frac{1}{2}$ lbs. in cases of 250 lbs.

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White Wax.-Plain round cakes in 2 lb. parcels in cases of 72 lbs.

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"BOWDLEAR BOSTON." 36 CENTRAL WHARF, BOSTON, MASS., U.S.A.

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TERMS:

In 6d. Bottles (attractive label in 6 colours). 3/6 per doz.; 39/ per gross.

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We can supply 6d. Bottles with special wording on labels, as "Smith's Herb Beer Extract," &c. Labels in colours. Price 39/ per gross nett.

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SPECIAL FEATURES:

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Instructions on each Packet. No Waste, as in the case of Loose Herbs.

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We have now a department engaged exclusively in the production of Sulphur Preparations; this, combined with a rapid system of drying, enables us to execute the heaviest orders at



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MAY 14, 1892

Oblong Tablets from Sulph. Sub. c. Crem. Tart.

Oval Lozenges (Garrod's Formulæ).

", ", ", Precip. c. ",

Square ,, ,, ,, ,, stamped to order, packed in the

Chemists may have any size or shape made, and STAMPED TO ORDER, packed in the above boxes, within seven days of receipt of order. Each box contains a quantity of small neat labels suitable for fixing to retail packages. Our goods cannot be excelled by any house in the trade, and the prices are exceedingly reasonable.

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FROM CUARANTEED PURE ENGLISH CHEMICALS.

We are prepared to make contracts for Home or Export trade, and to give closest quo ation, according to grade, packed as required, F.O.B. any of the United Kingdom ports. Mag. Cit. Gran. grades, A. B. C. and D. Saline grades, I. and II.

CHLORATE OF POTASH PELLETS,

FROM PURE CHLORATE.

In small quantities, or in original lewt. Barrels.

WE SUPPLY THE LEGITIMATE DRUG TRADE ONLY. SAMPLES FREE.

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Manufacturing Pharmaceutical Chemists, E LABORATORIES, MANCHESTER.

GLYCERINUM PEPTICUM. (FAIRCHILD.)

This Glycerine extract of the peptic ferment possesses every requisite of a concentrated solution of pepsin. It is highly active, uniform and stable, devoid of objectionable odour or taste, is freely miscible without precipitation or cloudiness with all proper menstrua or media, is notably free from all disagreeable qualities and characteristics of peptone solutions. It contains no alcohol or antiseptics other than glycerine of the purest quality.

Glycerine possesses peculiar value as a vehicle for pepsin, it being the only substance known which is at once both a powerful solvent and a preservative of the ferments of the gastric juice. For this reason, glycerine extracts of pepsin have been recommended and employed in experimental work by

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Glycerinum Pepticum supplied to the Trade in 4-oz. bottles, at 22/0 per doz.

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For TOILET, BATH, and NURSERY, are being largely advertised, & command a ready sale on account of their excellence & cheapness.

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it should be dipped in water, and then placed on the tongae, and may be easily swallowed with a little water.

SWAILOWED WILD A INCLE WATER.

The British Medical Journal says they are "well adapted for the administration of unpalatable powders or liquids."

The London Medical Recorder reports: "They will be welcome to medical men and to their patients, and also to pharmacists, whose labours they will lighten."

prevents any egress of the contents into the mouth. Just prior to taking the Cachet,

Supplied to the Trade in boxes of 100 at 14s. per dczen.

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ISO-BUTYL NITRIS.

Also GLASS CAPSULES of ISO-BUTYL NITRITE.

For use in Angina Pectoris, Asthma, and similar complaints, by Inhalation.

Liquor Cascaræ Suavis.

(REGISTERED.)

An agreeable Aromatic Fluid Extract of Cascara Sagrada, possessing the full laxative and aperient properties of the bark.

Sol. Æthyl Nitritis

Containing 3 per cent. of Pure Nitrite of Ethyl, in Absolute Alcohol and Glycerine. See paper by Professor Legels on "The Comparative Effects of Spiritus Etheris Nitrosi and Solution of Ethyl Nitrite," Pharmacertical Journal, December 22, 1888.

Spiritus Ætheris Nitrosi.

Guaranteed to contain the proportion of Nitrous Ether directed by the British Pharmacopois

Æther Nitrosus and Sol. Ætheris Nitrosi.

Respectively 8 and 4 times the strength of the Spirit.

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Manufacturing Pharmaceutical Chemists, MANCHESTER.

Laboratories and Drug Mills, KNOWSLEY STREET, CHEETHAM.

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BRANCH OFFICE, FINR'S BUILDINGS, MELBOURN3,
AUSTRALASIA.

Subscription 10s. per year, payable in advance, including a copy of THE CHEMISTS' AND DRUGGISTS' DIARY next to be published, post free to every country in the world. New subscriptions should date from the commencement of any month.

Supplied only to persons connected with the Trade, Single copies 4d, each,

Cheques and Postal Orders should be payable to Edward Halse, and crossed Martin's Bank (Limited).

SUPPLIED regularly to every member of the following Societies, who have adopted THE CHEMIST AND DRUGGIST as their official organ.

The Pharmaceutical Society of Ireland.
South African Pharmaceutical Association.
The Pharmaceutical Association of New Zealand.
The Central Association of New Zealand.
Otago Pharmaceutical Association.
The Pharmaceutical Society of Queensland.
The Pharmaceutical Society of South Australia.
Tasmanian Pharmaceutical Society.

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AMERICAN ISSUE.

THE next issue of THE CHEMIST AND DRUGGIST will have a special circulation amongst the best drug firms in the United States and Canada. There is thus provided for the English and Earopean trade an excellent opportunity of directly addressing buyers in the American market through the medium of an English journal. Those who wish to secure good positious for their advertisements should address the publisher by an early post, as the advertisement-sheets will be made ready for press next Wednesday.

Summary.

WE have to record the death of Professor von Hofmann, the famous Anglo-Teutonic audieue chemist of Berlin.

ONE of the proprietors of this journal has been elected an alderman of the City of Loudon. We publish his portrait.

THE chlorodyne case is not to be carried to an appeal. We give the label which the proprietor now attaches to each bottle.

OUR Coruer for Students tournament has reached its penultimate stage. The first six competitors are very close together.

Two judgments for penalties against unqualified sellers of poisons have been obtained by the Pharmaceutical Society at Glosson.

FURTHER striking evidence as to the couditions of the workmen in chemical-works has been laid before the Labour Commission, and is reported in this issue.

THE Board of Inland Revenue have been a second time defeated in their attempt to enforce the still-licence on gasmanufacturers. It is understood that this case is to go to the High Court for ultimate decision.

Does the term "ex warehouse" imply immediate delivery or at least possession of goods sold by the vendor? Evidence corroborating this view satisfied the Judge of the Bristol County Court in an interesting drug case tried there.

We report a lively discussion in the Irish Pharmaceutical Council on the recent actions taken against unqualified persons for dispensing. The minor question whether a report in this journal was accurate or not, is incidentally raised.

Rext Meek.

MONDAY, May 16.—Society of Arts, at 8 P.M. Professor Percy F. Frankland's third Cantor lecture on "Recent Bacteriological and Chemical Research in connection with the Fermentation Industries."

TUESDAY May 17.—Royal Institution of Great Britain, at 3 PM. Mr. F. E. Ives, on "Photography in the Colours of Nature."

Tuesday, May 17.—Pharmaceutical Society's annual dinner in the Freemason's Tavern, at 6.30 P.M.

WEDNESDAY, May 18.—Society of Arts, at 8 P.M. Captain W. de W. Abuey on "Colour-blindness."

WEDNESDAY, May 18.—Pharmaceutical Society, 17 Bloomsbury Square, W.C. Annual meeting, at 11 for 12.

WEDNESDAY, May 18.—Royal Microscopical Society, at 8 p.m. Mr. R. T. Lewis on "The Organs of Oriposition in certain Cattle Ticks." Mr. E. M. Nelson on "The Penetrating Power of the Microscope" and "The Rings and Brushes of Crystals"

THURSDAY, May 19.—Royal Institution of Great Britain, at 3 P.M. Professor Dewar on "The Chemistry of Gases."

THURSDAY, May 19 .- Chemical Society, at 8 P.M.

FRIDAY, May 20.—Royal Institution of Great Britain, at 9 p.m. J. Wilson Swan, Esq, M.A., F.C.S., on "Electro-Metallurgy."

TARTAR EMETIC, according to Harnack, is a doomed medicine. Apomorphine has all its diaphoretic and emetic properties without its disadvantages.

HERE'S A PRETTY HOW-D'YE-DO! The wife of a New Hampshire druggist became a Christian science healer, and, setting up in business for herself, drew so much patronage from the drug store that in retaliation the injured husband filed a bill for divorce on the grounds of extreme cruelty.—Western Druggist.



CONDUCTED BY RICHARD J. MOSS, F.C.S., F.I.O.

QUALITATIVE ANALYSIS.

MIXTURE of three salts will again form the subject of the exercise in qualitative analysis. It is to be snbmitted to a thorough systematic examination; its constituents are to be detected, and all other substances proved absent.

Students' applications for portions of the mixture will be received up to Wednesday, May 18, and the samples will

be forwarded immediately.

Students' reports will be received up to Saturday, May 28. Each report should contain a concise account of the work done, and should include a list of the constituents detected; in this list accidental impurities should be distinguished from the principal constituents of the mixture.

REPORTS.

The subject of the last exercise was a mixture of 3 parts of potash alum, 1 part of nickel sulphate, and 1 part of calcinm phosphate. The calculated composition of this mixture is :-

Ni	**	••	••	••	••	4.20
Al	••		••	••		3.48
Ca	••				••	7.74
K		••		••	••	493
SO,	••	• •		••	••	3:11
PO4	••				••	12:25
H _s O		••		••	••	36.28
						100.00

The only impurities of any note were traces of iron. chlorine, and the carbonic radicle.

Packets of the powder were sent to eighty-eight students, and fifty reports were received. Nineteen students succeeded in detecting all the constituents, and the failures in the other cases were as follows :-- Calcium, 21; nickel, 12; aluminium, 8; potassium, 8; the phosphoric radicle, 18; the snlphnric radicle, 0.

The difficulties which this analysis presented arose from the presence of a salt of one of the alkali earths, soluble in acids, but insoluble in water. To obtain a solution of the powder it was necessary to employ an acid, such as hydrochloric acid, and when in the ordinary course of the analysis ammonia was added to precipitate the iron group, the free acid present was neutralised, and the liquid was thus rendered incapable of holding the insoluble salt (calcium phosphate) in solution. In this way calcium was precipitated out of its proper place. Not only did calcium thus escape detection, but its presence where the student did not expect it to occur gave rise to mistakes, and in several cases the calcium phosphate was mistaken for a zinc compound. There are several other salts which would give rise to a similar difficulty-calcium oxalate, for example-and before proceeding with the analysis in the ordinary way, the student must make sure that the mixture contains no such compounds. An oxalate or other organic compound is easily disposed of by ignition, but the phosphoric radicle is not so

easily removed; the plan generally resorted to is to precipitate it in combination with iron, but for the details of the method we must refer our correspondents to their text-books. To those who knew the right method to employ with such a mixture this analysis was an easy one, but for beginners it was decidedly difficult, and those who find their names low down in the list must not be discouraged.

The First Prize for the best analysis has been awarded to W. TILTMAN (Zirconinm), care of Messrs, Matthews & Son. Harrow Green, N.E.

The Second Prize has been awarded to

W. R. Hedges, inn. (W. R. H.), Dale End, Birmingham,

Marks Awarded for Analyses :-

W. Tiltman (1st prize)	. 98	W. Roberts				75
W. R. Hedges, jun. (2nd prize)	97	Ulexine	••	••		72
Elixir (A. E. C.)	. 95	A. Lander				72
Experientia	. 95	Venditor		•••		70
Leo	-	Bynol				70
H. Bowden		First Trial		•••		68
Verax		Tyro				65
W. Maskew		J. Bircham				60
1 T		M. F. C. S		::		58
777 77 3		Ornum				55
35 11 35		Sapientia	••	••		55
		C. C. D. D.	••	••	••	53
Moyhitt			••	••	••	
Cogito		Victory	••	••	••	52
A. Blowpipe		Haslar	••	••	••	50
H. F		Styrax	••	••	••	50
J. Ashworth		Pepsine	••	••	••	45
L. F. M		Acidulous	••	••	••	40
Pyroxylin	. 90	Nena	••	••	••	35
H. McL. R	. 90	Lapides	••			25
E. Rajah	. 85	H. G. H			••	22
Danwer	85	Tempus				20
Ruh Raw	. 83	Peucedanum				18
Nulli Secundum	. 83	Vigovnia				15
J. Rose	-	Epsilon	••	••		10
C. E. Ashby	-	Vin de Coca	••			5
						-

HALF-YEARLY PRIZE.

The Proprietors of THE CHEMIST AND DRUGGIST offer a Special Prize, consisting of either Mendeleeff's "Principles of Chemistry" or Fresenius's "Chemical Analysis, Qualitative and Quantitative," to be awarded to the student who obtains the largest number of marks in the Corner for Students during the first six months of the year 1892.

We find that fifty-five who have competed on former occasions this year do not send in reports this month, or have not sent for samples. The result is considerable shifting of the names on the grand list. Thus 16 and 17 in the last list have not competed in this occasion. Probably the Easter holidays may account for this, but it is noteworthy that the competitor who now occupies the chief place and takes the first prize this month has not previously succeeded in getting above the ninth place. His record so far has been :-

January	••	 12th	place,	and	93	marks
February		 11th	22	"	94	,,
March		 9th	,,	,,	97	,,
April		 11th	11	12	95	11
Marr		104			QΩ	

The moral that we draw from this is that every competitor should keep at the work steadily.

The exercise given this past month appears to have been too much for many, the consequence being considerable alteration in the placing of the various names; but the competition is still very close, and all onr young analysts should use the utmost care in their next exercise. At present the list stands as follows:—

THE BUILDING OF POLICE					
1. Zirconium	••	477	54. L. K		154
2. Moyhitt		476	55. Tyro	••	151
3. H. Bowden	••	475	56. M. F. C. S		148
4. A. Blowpipe	••	474	57. A. Lander	••	148
5. Verax	••	468	58. First Trial	••	142
6. E. Rajah	••	465	59. C. M. H		135
7. B. A. (A. B.)	••	457	60. A. P. S. (S. P. Q. R.)	••	128
8. J. Rose	••	4£0	61. Ulexine	••	127
9. W. Hood	••	448	62. Peucedanum	••	109
10. W. Maskew	••	442	63. Styrax	••	107
11. A. M. (Elixir, A. E. C.)	••	441	64. Eucalyptus	••	100
12. Nulli Secundum	••	431	65. Epsilon	••	98
13. C. E. Ashby	••	424	66. H. O. Thurland	••	96
14. Pepsine	••	422	67. Atom	••	93
15. H. F	••	421	68. Martin Magor, jun.		93
16. Ruh Raw	••	420	69. John		92
17. L. F. M	••	407	70. Aluminium Silicate	••	91
18. Danwer	••	395	71. Success	••	90
19. Experientia	••	374	72. Vertolac	••	89
20. Acacia (Bynol)	••	370	73. Mel	••	89
21. W. R. H	••	365	74. Azalea	••	88
22. Leo	••	36L	75. W. Jones	••	87
23. Cogito	••	360	76. Macdum	••	86
24. J. Bircham	••	335	77. Glucose	••	83
25. Ozone	••	334	78. Radix		83
26. Pyrrhus	••	333	79. L. J	••	80
27. Vigovnia	••	324	80. Perseverance	••	80
28. H. G. H	••	319	81. S. O. H	••	78
29. Vin de Coca (Epip.)	••	309	82. J. Hamerton	••	78
30. Sapientia 31. Nena	••	296	83. Maculatum	••	78
70 70 11	••	294	84. Mercuric	••	78
77 77 3/4		273	85. Broadacre	••	77
33. Venditor	••	241	86. Flamme	••	77
75 0	•••	234	87. Labor	••	75
70	••	227 225	88. Cinchona	••	74
20 TT 1	••	221	89. R. I. P	••	72
	••	224	90. Elixir (A. R.)	••	71
70 1 1	••	207	91. S. P. Q. R	••	68
40 771.4	••		92. Opium	••	68
47 (7.37.4	••	201	93. S. G. B	••	68
40 TW T T	••	197 192	94. J. Schofield	••	65
47 Cululus	••		95. F. O. C L	••	60
44 17	••	192	93. Fred Gee	••	60
AS M A TO CENTER	••	180	97. A. A. B	••	58
40 C C C C C C C C C C C C C C C C C C C	••		98. H G. F	••	55
AT TE BEIT D	••	177	99. Calomel	••	55
40 Tr1+ C	••		100. Xam	••	50
40 777 70 4	••	169	101. Sarsæ	••	£0
EO T Ashmanth	••	169	102. A. M. D. G	••	45
61 0 D -1	••	168	103. S. H	••	40
	••	164	104. Lapides	••	25
67 Y	••	163	105. Meirion	••	5
53. Irvonium	••	158			

TO CORRESPONDENTS.

Prizes.—The students to whom prizes are awarded are requested to write at once to the Publisher, naming the book they select, and stating how they wish it forwarded.

Anyscientific book that is published at a price not greatly exceeding half a guinea may be taken as a first prize.

Any scientific book which is sold for about five shillings may be taken as second prize.

Note.—All communications should include the names and addresses of the writers.

A. BLOWPIPE.—Your correction was noted; au error in reagents such as you detected ought to be all but impossible.

E. RAJAH.—You were mistaken as to the quantity of chloride in the mixture; a nitric-acid solution of the powder showed only a slight opalescence on the addition of silver nitrate.

DAWER.—The phosphate that was present had an important bearing on the method to be adopted in the analysis of the ammonia precipitate. The molybdio-acid test has great advantages when phosphoric acid is to be sought in an acid solution. Very few students detected the trace of carbonate.

Ruh Raw.—You evidently failed to separate the phosphoric acid completely by means of ferric chloride, and it was thrown down in combination with the calcium in the precipitate which contained the nickel sulphide.

J. ROSE.—Considering the important error in regard to phosphoric acid, it is remarkable that your results were otherwise so correct. It was the

portion insoluble in water that ought to have been most carefully examined for phosphoric ac'd.

W. Roberts.—Aluminium was easily detected in the aqueous solution, but if you boiled the powder for some time with water, it is possible that some of the aluminium separated as phosphate.

ULEXING.—Even the original powder gave a distinct potassium coloration to the Bunen flame.

A. LADER.—It an acid solution of the portion insolube in water failed to give a precipitate with ammonia, it was simply because the ammonia was not added in excess. It is clear from the rature of the reaction the ammonia is intended to produce, that it must be employed in sufficient quantity to convert the acid solution into an alkaline one.

VENDITOR.—The nickel sulpi ide had not been very finely powdered, and some of the bright green particles were easily separated, and, on heating in a borax bead, the violet colour characteristic of nickel was obtained. Of course, the nickel should have been detected in its proper place in the wet analysis as well.

FIRST TRIAL.-You omitted to send your name and address.

TYRO.—You must have observed the fragments of green crystals in the powder; the composition you assigned to it would not account for a green sait.

SAPIENTIA.—We could not obtain a trace of the yellow precipitate that you produced with sulphuretted by drogen.

C. C. D. D.—See remarks to "First Trial"; the writer's name and address should accompany every communication.

Vicronx.—Your test for nitric acid was so imperfactly described that it was difficult to make out what you observed. Nitric acid should not be employed as a solvent when hydrochloric acid can be used. The exparation of several of the metals by sulphuretted hydrogen is interfered with by nitric acid.

STERAX.—The blue colouration with cohalt ultrate is not peculiar to alumina; several other substances, notably phosphates, give a similar colouration. The phosphates were the cause of your difficulty in the examination of the precipitate which you supposed to consist of aluminium bydrate. You have not done so budly in the search for the acid radicles; they cannot, unfortunately, be resolved into such convenient groups as the metals. You will find everything you mant in Atth-1d's "Chemistry," and it will probably suit you better than a purely analysical handbook. If you wantto make a special study of analysis, fresenius's "Qualitative Analysis" is about the best book you can select.

NENA.—Your method was not suitable for the analysis of a mixture containing a phosphate of one of the alkali earths.

LAPIDES.—Your note could scarsely be called a report; it is necessary to describe what you did with the powder, so as to show clearly what your reasons are for the conclusion arrived at,

H. G. H.—You are gifted with a vivid imagination if you were able to suppose that the powder smelt of burnt sugar when ignited. You ought to practice the analysis of some mixtures of calcium phosphate with other saits.

PRUCEDANUM.—The presence of calcium phospha'e completely upset your calculations; before a proper analysis could be made it was necessary to remove the phosphoric radicle.

EPSILON.—You will have to work hard at mixtures of your own preparation before you can expect good results with mixtures of unknown composition.

English Rews.

The Chloradyne Case.

Mr. Davenport has decided not to appeal against the decision of the Bow Street magistrate He now attaches the following label to every bottle of chlorodyne sent out:—

A preparation containing, amongst other ingredients, chloroform and morphinc. The law, therefore, requires it to be labelled Poison.

It should also be understood that the law requires besides that every retail vendor of the article should attach his own name and address.

Unregistered Vendors of Poisonous Proprietary Medicines.

The British Medical Journal concludes an article on the chlorodyne case thus:—"We cannot agree with Mr. Poland's contention that the consequent restriction of the sale of such articles to legally qualified chemists and druggists would be 'ridiculous.' On the contrary, we consider the achievement of that result to come within the especial object of the Pharmacy Act, and that it will be the dury of the Council of the Pharmaceutical Society to

enforce that restriction vigorously. The opportunity for taking action in that way is now being provided by the removal of the veil of secrecy under which irregular sales of poison have hitherto been carried on, and it is to be expected that chemists and druggists throughout the country will loyally and actively support their representative executive in securing due observance of the law. If they fail to do so in a matter that will so obviously operate to their own advantage, they will forfeit all claim to be regarded by the public as entitled to higher consideration and confidence than ordinary traders, and be unworthy of the protection which the Pharmacy Act provides for them."

A Champion Pill taker.

At the Wool wich Police Court on Saturday, William Bright, 43, a dock labourer, was charged with wilfully breaking a square of glass, value Is, at the Manorway railway station. Royal Albert Docks, and with the unlawful possession of three bottles of pills (Warner's, Philadelphia), value 4s. On inquiry it was ascertained that a number of bottles of pills were missing from a vessel on which the prisoner had been employed. The prisoner: I bought the pills in the street, off a chemist or quack. I can't call him a doctor. (Laughter.) Mr. Marsham: What were you going to do with so many? Were you going to sell them again? Prisoner: Sell them? No, take them. There is no man in the world takes more pills than I do. (Laughter.) I could not get sober without a dose of pills, and I'm no sooner sober than I'm sprung again, and thea there's more pills. (Laughter). Oh, I could never get on without my pills. Mr. Marsham: You do not seem very sober now. You have had no pills this time. (Laughter). Mr Marsham remanded the prisoner for a week, telling him that he would be quite sober by that time.

Store Prices.

The only alterations in quotations in the drug department announced by the Civil Service Stores for this month are the following:—Chemical food (Parrish's, Squire's), from 2s. 7d to 2s. 6d; graduated drop glasses (60 drops), from 4d. to $3\frac{1}{2}d$; Tricopherous (Barry's) hair-wash, from 2s. 3d. to 2s. 2d.; Eau de Fe s hair-wash, from 3s. 5d. to 3s. 4d.; citrate of magnesia (Bishop's), per 1-lb. bottle, from 2s. 5d. to 2s. 4d.

Carbolic Proof.

Emma Woods, a widow, was charged last week at the Trowbridge Police Court with having attempted to commit suicide in February last. She obtained a fluid ounce of carbolic acid at Mr. Dyer's chemist shop, and drank it at home. She recovered after a month's medical treatment, Dr. Wise now stating that this was the only case he knew of where such a dose of carbolic acid had not proved fatal. The Bench committed the woman for trial, but allowed ball.

A Bullock in a Chemist's Shop.

At the Brentwood County Court on Friday of last week a local chemist sued Frederick Poole, butcher, of High Street, in respect of damage done to the stock and fixtures of his shop in consequence a bullock, the property of the defendant gelting into it whilst being driven in a negligant manner under the care of a drover named Hicks. It was urged for the defence that the drover (being licensed) was the person responsible for the damage, and not the defendant, as the drover was not a servant, but a contractor, who was at liberty to drive at the same time animals belonging to different butchers. His Houour, however, held that the drover was a servant, and gave judgment for the plaintiff for 101. 10s. and costs, refusing leave to appeal in view of the small amount of the judgment.

The Spot of Laudanum.

An inquest was held at Leicester on May 5 respecting the death of the infant child of John and Clara Boss. The baby was a month old. It seemed in pain and was much purped. Mrs. Wardle, a neighbour, recommended, a "spot or two" of laudanum, but the mother said she did not like sleeping-stuffs. Ultimately, however, Mrs. Wardle had her way. She put a "spot" in an egg cup, so small, she said, she could hardly see any there, and gave it to the child, who went to sleep almost directly. Later on it seemed very ill, and Mrs. Wardle then recommended and afministered a halfpenny-

worth of castor oil-about a teaspoonful. Mrs. Bailey, another neighbour, came next, and at her recommendation some warm salt-and-water was given as an emetic. Last of all a doctor was sent for. He gave an emetic and treated the child otherwise, but it died eleven hours after taking the laudanum. The doctor made a post-mortem examination, and said he believed the child died from laudanum-poisoning. Mr. Harvey, the coroner, in summing up, said that it was the legal duty of every person, except in case of necessity, who undertook to administer surgical or medical treatment, to employ in doing it a common amount of knowledge, skill, attention, and caution. The question for the jury was whether Mrs. Wardle, who did certainly profess to administer medical treatment, had used an ordinary amount of skill. Whatever her intentions and qualifications may have been the child died from her treatment. If that was a mere mishap they would return a verdict of death from misadventure, but if they found that she did not exercise a common amount of skill, then she was guilty of manslaughter. Life must be protected against persons who furnished medical treatment, even with the best intention, if they were not persons having the necessary skill, and if they acted with rashness.

After some consideration the jury came to the conclusion that death was the result of misadventure, but asked the coroner to censure Mrs. Wardle and the mother, which he did with much discrimination.

Claim against a Chemist.

In the Lambeth County Court on Thursday last, before his Honour Judge Bristowe, Q.C., Messrs. Waltham, brewers, Stockwell, sought to recover 8t. 10s. 4d. for goods supplied to Mr. Howard Smith, a chemist carrying on business at High Street, West Norwood. The plaintiffs representative gave evidence as to the order and delivery of the goods, Mr. Howard Smith admitted his liability to the extent of 2% but swore most emphatically that he told the plaintiffs that he would not be liable beyond that sum, as he did not feel disposed to pay for all the goods which his servants chose to order. After hearing this, the learned Judge said there really was no defence to the action, as it was very clear that the whole of the goods had been ordered and delivered, Judgment must, therefore, be for the plaintiffs for the amount claimed, with costs.

A Specialist's Difficulties.

In the Westminster Cousty Court, on Thursday, an application was made to his Honour Judge Bayley for the committal of Mrs. Hillook, for having failed to comply with an order of the Court for the payment of a judgment-debt of 5t, 15s. for goods supplied by Mrs. Cooper in the way of trade. A member of the plaintiff's firm said the defendant could pay this money. She was the inventor of a patent cure for deafness, and carried on her business in expensive premises in Berners Street. The defendant said that it was true she carried on business in Berners Street, but she had been almost totally ruined in consequence of the arbitrary treatment to which she had been compelled to prosecute in consequence. As a result of the prosecution she had received a sum of nearly 50t, but she had paid it all away to liquidate her debts, and she was now without any means of paying this money as her business was almost ruined. The Judge said he was not satisfied that the defendant had any means to pay, and therefore he should not make any order against her.

Committal of a Lecturer on Chemistry.

In the Westminster County Court, on Tuesday, the case of Henderson v. Williams came before his Honour Judge Bayley, by way of a judgment-summons applying for the committal of the defendant for non-compliance with a previous order of the Court. The learned Judge wanted to know what the defendant's means of payment were, and the plaintiff's representative stated that he was the manager of a school of chemistry and was in receipt of a very good salary. He could well afford to pay this money, and if a committal order was made there would be no further trouble in the matter. The Judge: The defendant does not take the trouble to attend the court, and therefore I must assume that he can afford to pay. There will be an order for his

committal for twelve days, but the warrant will be suspended for fourteen days.

Laudanum and the Antidote.

A young servant girl—Emma Hyatt—was hefore Mr. Haden Corser at North London Police Court on Tuesday, charged with attempting to commit suicide by taking laudanum. She had been in the employ of Mrs. Unwin, of Turnell Park, and had got into trouble through either laziness or incapacity. Fearing she would he sent away, she got from a high shelf a bottle labelled "Laudanum—Poison," and took (so the doctor said) enough to kill a man; but her mistress promptly trotted her off to the police-station at Holloway, where Iuspector Kuight liberally supplied her with hot mustard-and water. This acted as an emetic, and the girl recovered. It transpired that the girl is a West Indian by birth, her mother a native, and her father at English seaman. Miss Gover (of St. Gilee's Christian Mission) pleaded for the prisoner, and the magistrate allowed this lady to take her away.

The Separate System of Supplying Drugs.

At a meeting of the Dartford Board of Guardians ou Saturday, May 7, Dr. Nutting wrote with respect to a cheque which had been sent to him for 25% for a quarter's salary, whereas it should have been paid at the rate of 90% a year, Messrs. Wilson & Botwood, chemists, of Hythe and Spital Streets, having been appointed to supply drugs which had been formerly supplied by the doctors. He, therefore, returned a cheque for 2% 10s. It was then elicited that the new arrangement had not turned out advantageously, as the bill of Messrs. Wilson & Botwood already amounted to 6% 5s.

An Overdose of Chloral Hydrate.

Mr. Denis William Donovan, house-surgeon at the Public Dispensary, Worksop, Notts, went to London, on April 30, for an examination for which he had been studying. He returned home on Friday last, and, complaining of feeling very tired, he went to bed. He seemed low and under some apprehension that he had not been successful. He got up on Saturday morning but went to bed again, and in the afternoon he mixed himself a dose of autipyrin. Later at night he went down to the surgery, and a little later, when his housekeeper went to his bedroom, he appeared asleep. On Sunday morning, when she visited him again, he was in the same position, but dead. Dr. Moutague found on the surgery counter a bottle of chloral-hydrate crystals without a stopper, and some of the crystals were scattered about. In his optuion death had resulted from an overdose of that medicine. The jury endorsed this view.

A Chemist's Wine-licence.

On Friday, May 6, Messrs. Savory & Moore, chemists and druggists of New Bond Street, applied to the magistrates for the parish of St. George's, Hanover Square, that the condition on their licence, which had been granted to them by the Excise for the sale of wines and spirits for medicinal purposes only, should be so altered as to remove the restriction. The justices, however, refused to grant the application.

Birmingham Notes.

The recreation section of the Midland Counties Chemists' Association is to be divided as follows:—I. Cricket, W. Asten, Coventry Road, secretary; 2. Tennis, J. T. Cattell, Great Lister Street, secretary; and 3. Cycling, W. C. Scott, 316 Wheeler Street, Lozells, secretary. A half-crown subscription has been fixed, and Mr. Solomon Taylor, 52 Moor Street, has been appointed general secretary. The season commenced on Wednesday.

The annual meeting of this Association will not be held next week, owing to the Pharmaceutical Society's meeting in London. May 26 is fixed as the date; husiness at Mason College at 630, and supper in the Colonial Hall, New Street, at 8 P.M.

Mr. Lear, who for many years owned the husiness now carried on by Mr. Blunt, Coventry Road, has opened a new shop at Hay Mills, a small village near Birmingham.

Competition is becoming very keen in the Stratford Road suburb. A large and well-appointed pharmacy has been started, and the local men have to look to their laurels. Mr.

Thompson has just put up a large gilt wood sign with the number of his shop and the legend, "STORE PRICES." Sic

Mr. Saul's sarcastic references to the aptitude of the average pharmaceutical student is taking effect here. One pupil ended his customary five years' apprenticeship in the pharmacy, and has become a jeweller; a second has passed into the bakery line; a third, a clerk in a wholesale warehouse; a fourth has gone to sell bacon; and a fifth blacks boots at one of the hotels during the morning, and applied to an analytical chemist to fill up his time, because he said he was a good dispenser and prescriber. Many are becoming dentists, and not a few have entered the medical school as embryo-medicos.

Mr. Ambrose Hartill, chemist, Coseley, has undertaken to collect 100% for Communion plate for Coseley Church, and has already purchased several of the pieces necessary to make the set.

A local photographer, taking advantage of the recent advance in photographing in natural colours, has filled his window with some specimens of what he calls chromo-electrotype photography in natural colours, the price of which is one guinea each portrait. They are certainly beautifully executed, and form pretty pictures, but they can scarcely be called photography.

Selling Cyanide of Potassium.

On Thursday of last week a Birmingham jeweller, named Michael Joseph Goldsmid, was robbed in Manchester of jewellery of the value of 2,000%. The jewellery was contained in sample cases which had been left on a handcart in the street in charge of a porter. While the porter was iuspecting the window of a shop the cases were snatched from the cart and nothing has been seen or heard of them since. On the following morning Goldsmid was found dead iu bed at the Spread Eagle Hotel, Manchester. At the inquest on the body, one of the witnesses was Mr. Fletcher Rix, chemist, 208 Deansgate, manager of the business of the late Mr. Holt, who said he sold to deceased about four o'clock on Thursday afternoon au ounce of cyanide of potassium, which he said he wanted for cleaning jewellery. Witness at first refused to supply him, as he did not know him, but Goldsmid afterwards brought an assistant from Mr. Percy, pawnbroker, whom witness knew. He was then supplied with the cyanide after signing the register. With this it appeared deceased had poisoned himself.

An Uncontrollable Impulse.

At the Bristol Police Court on Tuesday, Frederick George Ling, a chemist's assistant, was summoned for indecency towards a child named Emily Louisa Rose Hann, aged 8 years, but the prosecutor wished the summons to be altered, so as to reduce the charge to one of common assault. This was in consequence of inquiries having shown that the prisoner had been suffering from an illness which had affected his brain. The child having given her evidence, Mr. Clifton, for the defence, said that for two years the accused had suffered from serious head-trouble which had necessitated several painful operations. On the day in question he was apparently seized with an uncontrollable impulse. Defendant had always borne an excellent character. The hench thought the case could not be dealt with by a fine, and sentenced defendant to a month's hard labour.

Alderman Walter Vaughan Morgan.

A wardmote was held in the vestry-room of St. Mary-le-Bow on May 9 for the election of an alderman to succeed Lieut.-Colonel Cowan, the representative of Cordwainer Ward. Colonel Cowan's name stood first on the list of the aldermen who have not passed the chair, and he would probably have been elected to the mayoralty of the City next year in the ordinary course. But for private and business reasons Colonel Cowan has resigned his seat, and Cordwainer had to choose another alderman. At the wardmote referred to the vacancy was filled by the unanimous selection of Mr. Walter Vaughan Morgan, of 42 Canon Street. The Lord Mayor, who presided, and whose business is in the same ward, remarked, in winding up the "mote," that, with the exception of himself, Mr. Morgan would be the only alderman who was actually a resident of the City. Oce fact that especially commended Mr. Morgan, as far as he (the Lord

Mayor) was concerned, was that he was a Welshman. When he (the Lord Mayor) was elected to the position he had now the honour to hold, he was, he believed, the first Welshman who had been appointed for some centuries as the Lord Mayor. In the alderman-elect of that day, however, they had a gentleman who could truly claim Welsh nationality, for he was of Welsh parentage, and had, moreover, the advantage of having hear hour in the Principality.

vantage of having been born in the Principality.

Mr. Walter Vaughan Morgan, who was thus elected an alderman of the City of London for the ward of Cordwainer, is the eldest surviving member of the firm of Morgan Brothers, once wholesale druggists' sundriesmen, subsequently merchants, founders of the business now carried on by the Morgan Crucible Company (Limited), and the firm which thirty-three years ago established this journal. Mr. Morgan was born at Glasbury, Breconshire, in 1831, and was educated at Christ's Hospital. He spent his last night in that institution as a boy on Easter Monday.



1846, and on Easter Monday, 1891, he entered into residence as treasurer of the Hospital, to which honourable position he had been unanimously elected by his fellow governors on the retirement of Mr. J. D. Allcroft. Mr. Morgan is a Freemason of many years' standing, has twice been Master of his lodge, and has also occupied the principal's chair in Royal Arch Masony. He is besides a director of the Hudson's Bay Company and a member of the Worshipful Company of Cutlers. His qualiteations for the position to which he has just been elected are recognised by all who have come into association with him, both in public and private. At the age of twenty he was the chief cashier in the National Provincial Bank of England a' Manchester, and since then in his own businesses and on the important boards we have named his ability as a financier and administrator has been most marked.

The Lord Mayor and the Lady Mayoress will give a dinner at the Mansion House on June 3 in honour of the aldermanelect.

Sudden Death at a Chemist's.

A sad case of sudden death occurred in the shop of Messrs. Thurland & Son, chemists, 10 Magdalen Street, Oxford, on Wednesday afternoon. About three o'clock Mr. W. Lidington, landlord of the Spread Eagle, Thame, called

at the shop and complained of a pain at the chest. Mr. Thurland supplied him with a simple remedy, but this afforded him no relief, and he continued to beat his chest with bis hand, and gradually sank from the chair on which he was sitting to the floor. Mr. Drew, surgeon, was sent for, but death ensued immediately after his arrival.

Frish Rews.

The Recent Pharmacy Act Cases.

The Dublin Evening Telegraph has published several letters in reference to the statement in THE CHEMIST AND DRUGGIST that "the terms of settlement included an understanding that the Society were not to publish the cases in the Dublin papers." Mr. Hayes, the President of the Pharmaceutical Society, signs one of these letters, in which he says the statement was "entirely unauthorised." That is so; our news is the best that can be got, but authorised information is often rather bare. Mr. Hayes says, further, that "no such understanding or intention ever entered into the minds of the Council or its Law Committee." This assertion seems a little unconsidered in view of the lengthy narrative of the circumstances unfolded by Mr. Hayes himself in the Irish Council—a report of which appears this week—and it certainly is not the impression of Mr. Boyd. Our correspondent sends us the grounds for the statement, which are curious, but which we do not care to publish at present.

The Contract Battle Still Undecided.

The contract for the North Dublin Union is still awaiting confirmation. At the last meeting of the Guardians a letter was read from the Local Government Board, enclosing a letter addressed by them to Mr. Samuel Boyd, an ex-officio member of the Board of Guardians, stating that he, being an ex officio guardian, could not resign his position on the board until September 29 next, the end of the year. It appeared, therefore, that his firm could not take the medicine-contract-which had been awarded to them. It was stated that they had not signed their bond for the contract, and it was decided if the bond were not signed at once to give the contract temporarily to Messrs. Leslie. Messrs. Leslie & Co. had written to say that, as some of the guardians appeared to be under the erroneous impression that the prices named in Messrs. Boileau & Boyd's tender were lower than theirs, they would be only too happy to accept the contract at the prices stated in Messrs. Boileau & Boyd's tender were lower than theirs, they would be only too happy to accept the contract at the prices stated in Messrs. Boileau & Boyd's tender.

Registered Druggist Examinations in June.

Thursday, May 19, will be the last day for receiving applications from intending candidates.

Scotch Rebs.

Destructive Fire in Glasgow.

A fire of a destructive character broke out on Sunday morning in the premises of Messrs. Baird & Tatlock, sclentific-instrument makers and chemists, 40 Renfrew Street, Glasgow, by which damage amounting to 2,0002 was done. The building consisted of four flats, and the three upper ones were occupied by Messrs. Baird & Tatlock. The outbreak took place on their show-room flat, where there was a large quantity of chemicals. For the most part the flames were confined to the one flat, but the other floors were damaged by heat and water.

Carnoustie.

Mr. William Nicol asks us to state that he simply sold Mr. Henderson his stock and fittings three years ago—nothing was paid for goodwill. The shop which Mr. Nicol is now to occupy is his own property, and that is the sole reason why he has selected it. From another source we learn that Mr. Henderson has taken a shop at the extreme west end of the town.

Aberdeen Notes.

The Aberdeen chemists have agreed that their annual picnic shall be held at Braemar, on Wednesday, July 6. The company will proceed by rail and coach, and will dine on arriving at the Invercauld Arms Hotel. Thereafter they will drive to Linn of Dee, or those who like it can go mountaineering. Members of the craft will, as usual, be welcomed, and may address either the Convener, Mr. John Cruickshank, or the Secretary, Mr. A. Strachan, who will give particulars.

The successful contractors for the Old Machar parish medicine contracts are Mr. A. M. Shepherd, for House and South Division; Mr. R. Hall, Woodside, for North Division;

and Mr. H. Milne, for Old Aberdeen.

Edinburgh Botanical Excursions.

The committee of the Assistants' and Apprentices' Association have arranged the following botanical excursions:—

Date	Place	Meet at	Time	Return
May 25	Colinton Dell	Waverley station (suburban)	5.45 д.м.	8.5 A.M.
June 15	Duddingston Loch	Duddingston church	8.45 P.M.	By road
" 29	Colinton Dell	Caledonian station	8.30 р.м.	77 39
July 13 27	Inveresk Craigerook	Waverley station Caledonian	8 15 PM. 5.45 A.M.	10.45 P.M. 7.51 A.M.
,, 2	Otting of took	station	0.10	

Glasgow Changes.

Mr. M. F. Thompon, chemist, 17 Gordon Street, Glasgow, has purchased the old-established chemist's hustness at 609 New City Road. The Glasgow Medical Hall Company intimate that they are removing from their present premises at 140 New City Road to a new shop at 253 in the same street.

The British Pharmaceutical Conference.

A meeting of the local executive of the Pharmaceutical Conference was held in Edinburgh on Wednesday to consider arrangements in connection with the gathering. It was agreed that the Waterloo Hotel should be the head-quarters of the Conference, and that the reception should be held in the Waterloo Rooms on August 22, where also the meetings will be held. There will be two afternoon excursions, one to Dalmeny (the seat of the Earl of Rosebery) and the Forth Bridge, and the other to Roslin and Hawthornden. The whole-day excursion will be to Looh Tay, the journey being via Stirling and Callander and the Pass of Leny.

French Pharmaceutical News.

(From our Paris Correspondent.)

EXPLOSION THROUGH CARRLESSNESS.—An explosion occurred on Thursday last at M. Biard's chemical and colour warehouse, 9 Rue de Jouy, next to the Pharmacie Centrale. Two workmen were pouring spirit from one receptacle to another imprudently near a coke fire. A sadden draught brought the fire to the inflammable vapour, a loud detonation taking place. The two men, and a woman who was near, were badly burned about the face and hands.

A WIDOW'S BUSINESS EXPERIENCE.—The proprietor of a dispensary at Chambèry having died, his widow continued the business, having a qualified assistant in charge and ordering medicaments in her own name. A wholesale drug firm at Lyons supplied the goods desired. But when they presented the bill the fair debtor failed to meet it, alleging that she was merely acting on behalf of her children. These, being under age, could not be sued. The Tribunal of Commerce, however, took the common sense view that "who orders pays," and the lady has been ordered to settle her accounts, plus costs.

PHARMACISTS AND THE INLAND REVENUE.—The "stamped paper," dear to red-taped French bureaucracy for the draw-

ing up of everything from a birth certificate to a last will and testament, is apt to be pushed sometimes to extremes. A pharmacist at Damville (Bure) was recently condemned to a 5t. fine for having given, on unstamped paper, the necessary certificate to one of his employés that he had duly passed the requisite number of years in his pharmacy. The Norman is proverbially a keen business man, and feeling the injustice of such petty persecution the pharmacist petitioned the Ministry. He has just received notice that the fine is remitted, and that all he will have to pay is one shilling for the registration of the paper in question.

Foreign und Coloniul Nelvs.

QUININE IN MASHONALAND.—According to the Mashonaland Herald, the hectographed journal of British Zambesia, quinine was lately sold by auction at Fort Salisbury at 8s, per oz, tea brought 30s. "per box," and sauce 20s. per dozen.

WORKING AT A LOSS.—The working of the Chemische Fabrik, late Hoffmann & Schoetensack, in Mannheim, shows a net loss of 123,290m. in 1891, against a net loss of 62,637m. in 1890. To cover this loss 103,211m. have been drawn from the reserve fund. The share capital of the company is 900,000m, and at the end of the year the liabilities were 100,000m. upon mortgages, and 334,576m. to general creditors, against assets amounting to 370,612m., estimated stock value, and 224,562m. in book-debts.

POISONED WITH VITALINE.—Colonel Gresser, the Prefect of the Russian police, has died from blood-poisoning the result of injections of a new quask remedy called vitaline, which has lately been muon puffed by the St. Petershurg press, but which now turns out to be glycerine and borax. It appears that Colonel Gresser was suffering from rheumatism, and he injected vitaline with a syringe supplied by M. Gatchkovsky, the inventor of the medicine. It is supposed that the syringe was not clean, and hence the blood-poisoning. The inventor of vitaline is under arrest, and the sale of the medicine is stopped.

THE NEW ARGENTINE SALT-INDUSTRY.—The Rio Negro Salt Company in the Argentine Republic, of which we gave an account recently, now supplies the market with more than 50 tons of salt a day. It is brought to the company's stores at the Boca, where, immediately on being landed, it is dried in large kilns. Afterwards it is purified, and separated into different classes—viz., fine table salt, refined salt in barrels, common salt, and salt specially prepared for the "saladerox," or meat-curing establishments, for which purpose it is considered quite equal to the foreign salt, and is much cheaper.

SEQUAH AMONG THE DUTCH.—In Holland the Customs officers have the right to appropriate any goods (liable to Customs duty) imported into the country upon payment to the importer of the sum declared by him to represent the value of the goods. Most of the duties are levied at the rate of 5 per cent. upon the declared value of the goods, and the object of the rule is, of course, to prevent importers from declaring merchandise below its real value. It is now pointed out in the Dutch papers that Sequah (who is still touring in the Netherlands) recently imported 40,000 hottles of his oil, and declared the value, for Customs purposes, at 7 cents, or rather less than $1\frac{1}{2}d$. per bottle, whereas the retail price is 2s. 1d. per bottle. The importer is asked to because of his unfamiliarity with the language. Meanwhile because of his unfamiliarity with the language. he continues to draw crowds wherever he goes. At the Hague a band of lady admirers presented him solemnly with a gold medal; and in Amsterdam General Booth, who happened to pay a visit to that city a few days after Sequah's triumphal entry, was received in all the populous quarters with enthusiastic cheers for Sequah, the crowd being under the impression that the two visitors from Britain represented the same concern.

AN INSECTICIDE has recently been patented in U.S.A. which is a mixture of extract of horse chestnuts and a solution of resin.

Pharmaceutical Society of Freland.

COUNCIL MEETING, MAY 4.

THE PHARMACY ACT PROSECUTIONS AND THE REPORT IN "THE CHEMIST AND DRUGGIST"

THE PRESIDENT said: Before the business of the day is entered noon I think it right to make a statement with regard to the prosecutions to which you gave your assent at the recommendation of the Law Committee at the last meeting of the Council. It is with a mingled feeling of pleasure and pain that I announce that those prosecutions have been concluded—of pleasure because this very nnpleasant work has been brought to a close by the submission of all those against whom summonses had been issued for breaches of the Pharmacy Act without having the cons and pros argued before the legal tribunal, with the consequent publicity in the press, which would be regarded by those concerned as undesirable and probably injurious; but of pain that any of our associates should have been subjected to prosecutions by their own Council, whose desire would have been to take a po ition of parental cherishing of their children rather than of correction and chastisement. The cases were similar in this respect that the parties were all breaking the law, although they were unlike in the modus operandi of the dis-obedience. I think it right to state the issues in the three cases, in order that our licentiates in general, and the chemists and druggists in particular, may distinctly under-stand what is legal and what is not legal; and if these and somewhat similar cases tried and determined some six months ago are not sufficient warning to evil-doers, they will only have themselves to blame if a worse thing befalls them. The recent prosecutions were cases of (1) a qualified and unqualified partnership; (2) a chemist and druggist with a special dispensing department managed under the name of and by a pharmaceutical chemist; and (3) of a chemist and drnggist and a registered druggist having an M.D. of Trinity College, Dublin, who is registered as a pharmaceutical chemist Contege, bushes, who is registered as a pharmaceutical one mist who resides in another country—in the partner-ship, and carrying on the dispensing business, and also using the title of "pharmaceutical chemists." The first of these classes was represented by the case of Mr. George P. Beater, who, on hearing that the Council had instituted proceedings for what he was not aware was in any way illegal, as he took no part in the business, at once consented to pay a fine for the alleged breach of the law and retire from partnership with Mr. Hardy, a licentiate of our Society. The dissolution was gazetted within a few days after the institution of the proceedings, and thus all cause of complaint was removed. I think we may congratulate both Mr. Beater and Mr. Hardy on their keenness of perception and promptness of action and on the happy solution of a difficult problem. The second class is represented by the case of Mr. Charles Johnston, who thought his position was unassailable, and that his having been left fourteen years without molestation was, to his mind, proof that the Council thought so too. But when he found his position untenable he at once bowed to the inevitable, paid his fine, and gave an undertaking to relinquish his dispensing department. Under class 3 comes the case of Messrs. Boyd & Goodwin, whose firm is represented by Mr. Samuel Boyd and his son, Mr. Walter Boyd, who, in addition to compounding prescriptions, were using the title of "pharmaceutical chemists. This, I cannot avoid stating, was a case that has caused the Law Committee great anxiety, and they have given it much thought and consideration. Complaint after complaint by licentiates of our Society was laid before our committee of illegal dispensing on the part of those gentlemen, and our licentiates complained bitterly of the inaction of the Council. Several cautionary notices were sent to the firm, but without producing the desired effect. There was then a period of rest in the way of prosecution; but the committee at last felt that it would be most unfair to the Council and its licentiates any longer to hold back from doing its duty, painful and unpleasant though that was. In this, as in the previous cases, the Messrs. Boyd submitted to the penalties. and earnestly requested that the matter should be settled out of court, which the committee-acting under the advice

of Mr. Clay, our solicitor—consented to, on their paying the fines and the costs and giving an undertaking not again in any way to break the law. The following is the undertaking which was drawn up by Mr. Clay:—

April 28 1809.

SIR,—In consideration of your withdrawing the summous you have issued against me for an infringement of the Pharmaceutical Acts, and accepting the penalty I have incurred, with costs, thereby undertake, from this date, to give up compounding prescriptions, or in any other way infringing the said Pharmaceutical Acts as now in force in Treland.

Yours truly, WALTER BOYD.

To the Secretary of the Pharmaceutical Society Ireland.

The cases against those three gentlemen were consequently withdrawn; a representative from Messrs. Casey & Clay went down to the police court; and when the cases were called, I think the words he used were "withdrawn and settled." In THE CHEMIST AND DRUGGIST there has appeared a short statement with reference to these cases, which in some respects is correct, but in others incorrect.

There is the following paragraph at the end of the report:— "The terms of the settlement included an understanding that the Society were not to publish the cases in the Dublin papers." I may say, on behalf of the Law Committee, at every meeting of which, with respect to this case, I was present, that no such undertaking or understanding was arrived at by them, nor did they give any permission to that effect. The only thing that in my mind could have left any such impression on any of the persons concerned was a statement that I made to Mr. S. P. Boyd when he was in my office asking me to withdraw these cases from the police court. I replied that if he submitted it might prevent undue publicity in the Dublin press; but as to giving any undertaking, it was the last thing in my mind. Consequently, anyone who thought that any such undertaking was given would be under a serious misapprehension. Following this up, Mr. Boyd went to Messrs. Casey & Clay. What passed between them I don't know, but Messrs. Casey & Clay have written to Mr. Ferrall the following letter :-

21 St. Andrew Street, Duhliu,

May 2, 1892.

DEALSIN,—Mr. Boyd has been with us to-day very much annoyed at what he calls a breach of faits by the publication by your Society (because it could only come through one of the members of the Council) of the three cases in which the summonses were agreed to be withdrawn without any publication, and it bedemands a written explanation from us. We certainly must (ay that we know mothing about two parethe information to THE CHEMET AND DERGOST which justifies the report on page 623. Will you be good enough to ask the Council to place us in a polition to reply to Mr. Boyd, who charges us with a gross breach of trust?

Yours faithfully, CASRY & CLAY.

P.S.—We think it right to state that so far as our assistant's action in the matter is concerned, the report is deliberately nuture. He simply asked leave of Mr. Swifte to mention the cases. Mr. Swifte said, "Yes," and our assistant only stated that "they had been settled "--nothing more.—C. & C.

Now I don't know, Mr. Boyd, whether you consider that you wrote this other letter to me personally or not?

Mr. BOYD: You may read it.

The PRESIDENT: Without Mr. Boyd's leave I would not read this letter, though I don't think that I ought to have been subjected to Mr. Boyd's strictures in my endeavour to act fairly between my Council and an individual member:—

18 Leeson Park, Dublin,

May 2, 1892.

DEAD MR. HAYES,—I am more than surprised to observe in last Saturday's issue of THE CHEMEN AND DRUGGING a report of what is said to have taken place in the Doblin Police Court on Thurkay last. As a matter of fact, these cases were withdrawn. They were not called at all. I consider the publication a direct breach of the understanding between us, and I cannot easily forget your conduct towards ms, as a collegue on the Council, in this matter from the start. The report is also milicading in the extreme, for it says nothing whatever about the qualified partners in the firms mentioned, nor does it state that this is the first time the Society has asserted its claim that every partner in a compounding extiblishment shall be a qualified pharmocit. You will, no doubt, agree with me that the report should be corrected in the next issue of THE CHEMIST AND DRUGGINS and the British and Colonial Druggist, and that an opportunity should be taken to cantion firms that the Council intend to prosecute in all cases where there is an infringement of section 300 of section 300 of section 300 of section 300 of section 500 of section 5

the principal Act as amended by section 17 of the 1893 Act, which are, I suppose, the sections by which you are advised we have those powers. As far as the letter applies to the recent prosecutions, I think I may Yours faithfully, SAMUEL P. BOYD. fairly claim to see it before it is sent.

William Hayes, Esq.

P.S.-I think Mr. Parcell's opinion should also be made public. With regard to Mr. Boyd's statement that he considered the publications a distinct breach of an understanding between us, I distinctly say that as to an understanding that nothing was to be published, nothing was farther from my mind. Mr. Boyd's reference to my conduct as his colleague on the Conneil I don't understand. My conduct, I hope, has been that of a consistent man-(hear, hear)-acting as President of the Society without fear or favour, and doing my dnty; and I am not afraid of my conduct being impugned by Mr. Boyd, or anyone else, because I feel that I have acted consistently. Had I gone to Mr. Boyd and told him what proceedings were to be instituted I should have done a distinctly wrong act. With reference to Mr. Boyd's claim to see anything that I wrote before sending it, if he is appointed by the Conncil to inspect anything that I send, I shall certainly submit; otherwise I will not be dictated to by anyone.

Mr. BOYD: I don't think there is any attempt at dictation

in my letter.

The PRESIDENT: Next as to the prosecutions in the Southern provinces. We have not so good a report to make as to these, for the gentlemen prosecuted there have been making interest with their friends on the bench and in other ways to obtain an extension of time. You are aware that we obtained a judgment against Mr. James Selkirk for breaking the law, but that gentleman lodged an appeal. That appeal was not heard in due course, but has been put off until June next. We then proceeded against his brother, Mr. William Selkirk, a registered druggist, for illegal compounding. His solicitor applied for a postponement until after the brother's appeal had been heard; but although Mr. Gardiner, the stipendiary magistrate, was very anxious that the case should be heard, the honorary magistrates overrnled him, and the case has been postponed until after the appeal case shall have been heard. Of course this adds to the expense, but I think I speak the mind of the Connoil when I say that, no matter what may be done in these cases, we are determined not to rest until the law has been carried out to its fullest extent. (Hear, hear.)
Mr. Wells: Allow me to add that I think the Bench is

influenced in those cases; and I hope that if there be any means of bringing pressure on the Government to induce them to look into the matter, we will avail ourselves of it. (Mr. Wells then read a part of the report of the proceedings the last time the case was before the Cork magistrates.)

Mr. BOYD: I should like to know how the report got into THE CHEMIST AND DRUGGIST. Has the President any in-

formation as to that?

The PRESIDENT: I think the Freeman's Journal had a reporter there, and I think THE CHEMIST AND DRUGGIST We did not send the report, nor had had a reporter there.

we anything to do with the sending of it.

Mr. BOYD: The distinct understanding in Mr. Clay's office was that the cases were to be withdrawn. I inferred from that that it meant an absolute cessation of publicity in the matter; and on that condition my father consented to bear those penalties and to pay the costs and give the under-taking. Certainly if it had been left in my hands, and if there was no understanding of that sort, I should have advised him to defend the case on this ground—that it seems to me that it is only since the passing of the Amendment Act that the Society has been empowered to prevent the com-pounding of prescriptions on premises of which pharmaceutical chemists are not the sole proprietors. It is only under the 17th section of the Amendment Act that they have been able to stop it. My contention may be right or it may be wrong, but I say that the object of that clause is to put the responsibility of the retailing on the proprietor of the establishment; and I was a party to its being put into the Act. But what I complain of as a member of the Conncil is that such a course should have been taken when gentlemen here know perfectly well that if my father had been written to, or if he had been told that there was something illegal being done, he is the first man in Dublin that would have ceased to do it. I say the proper course for the Law Committee to have taken was to have written a letter to Messrs. Boyd & Goodwin.

Mr. WELLS: We did so.

Mr. BOYD: Excuse me. Allow me to go on. The proper course would have been to have written a polite letter to Messis. Boyd & Goodwin saying, "We are informed that you are acting contrary to the law, and we feel it our duty to warn you that in the event of such-and-such a thing not being done within a certain time we shall be compelled to prosecute." Instead of that what is done? There is this Star Chamber business, and then the Committee launch three summonses at my father.

Mr. WELLS: No-two.

Mr. BOYD: Mr. President, will you kindly ask this gentle-man not to interrupt me? I say that as a member of the Council and a colleague of these gentlemen on the Law Committee-and I speak as well for my self as taking my father's place in the matter-that I was entitled to some little consideration, and I say that it is a gross scandal, and won't be to the credit of this Conncil-

Mr. Wells: Oh, question, Mr. President! I say that must be withdrawn. I don't think we should allow such

language against our members.

The PRESIDENT: I am quite willing that Mr. Boyd should use such language towards the Connoil. We shall leave it to our constituents to say who is right in this matter. I think the scandal is on Mr. Boyd's part. I for one feel that we have acted perfectly bona fide all through. Had we acted otherwise than we did, we should have been doing what was

Mr. BOYD: Well, see-I was interrupted by Mr. Wells, who said that they sent some cautionary notices to Boyd & Goodwin. As far as I have been able to gather-and I have made some inquiries-no cantionary notices have been sent for the last six years; and I must repeat that I have spoken to several persons over this matter, and the general opinion is that I, as a member of the Council, have been treated scardalonsly and shamefully by my colleagues on the Council. I cannot help being thoroughly indignant about it; and I am sure there are gentlemen on this Council who will agree that if notices such as I suggested had been sent to Boyd & Goodwin, and to the other firms, none of them would have broken the law. I am quite satisfied that if it had been pointed out to them that they were doing an illegal thing, they would have ceased from doing it. But they were not posted up in the changes that have taken place in the law, and the result is that they have been infringing the law, and I quite acknowledge it. I was the first to see that having broken the law they should give an undertaking and pay the penalties. But the fact is that my treatment by the Council has nothing whatever to do with the right and wrong of the case; my contention is that as a colleague I had some right to consideration-that I should not have been placed in the position of prosecuting my own father, for that is what it comes to.

Mr. BEGGS: If Mr. Boyd had been present at the whole of our last Conncil meeting he would have heard the report of the Law Committee, in which mention was made of the prosecutions; but he left before that report was brought

on.

Mr. BOYD: I quite asknowledge that I should have remained until the meeting concluded; but I was not able to Even if I had been here and had protested, and asked the Conneil to send a cautionary notice to the firm, I question very much whether my doing so would have been of any use.

Mr. WELLS: No use.

Mr. MERRIN: After the previous prosecutions the Vice-President pointed out distinctly that no firm could let a portion of their shop to a qualified man to carry on dispensing; and one of the gentlemen who has been now prosecuted was sitting in the chair where Mr. Boyd now is, and heard it all distinctly

Mr. Wells: It is my duty, having had an active part in these prosecutions, not to allow Mr. Boyd's statements-a great many of which are totally devoid of fact-to go without contradiction. In the first place, it was while the President was away that the Law Committee were first instructed to take up these prosecutions. I had them in hand before the President came home; and at his request I continued to go on with the cases and prepare them for the Court. So that our President had very little to say to these prosecutions until a few weeks since, when he came to us and acted as president of the committee. Mr. Boyd has made a statement, which I say is altogether unfounded. He says that, when we settled the cases, it was understood in Mr. Clay's office that there was to be no publication.

Mr. BOYD: Excuse me-the cases were withdrawn

Mr. Wells: Allow me now. I say that at the interview, when Mr. Boyd was present, and Mr. Grindley and the President were present, the question of publication was never mentioned; and if it had been our committee would not have acquiesced on any account. You have all read the report of the Law Committee, in which we explain that we would not submit to anything but the publication of these cases. What is our object? Not to take the money of Mr. Boyd, or any other man. We don't want their money. We want them to respect the law; and our object was simply to punish them, and to let the public know that they were doing

The PRESIDENT: I think you are not quite correct in saying "let the public know," I think what we wished was that those who are in trade as chemists and druggists and registered druggists should know. We did not wish in any way to injure the business of Messrs. Boyd &

Goodwin or any other gentleman.

Mr. Wells: Messrs. Boyd & Goodwin were doing business that they had no right to do, and the public would have some trouble in detecting the fact. What I had in view when I assisted to pass the resolution was not to get their money, but to make an example of them and punish them for doing wrong by making them give it up, and to let other people through the country know that we were pre-pared to do the same thing with them. There wasn't a word, right or wrong, about the thing not being published.

Mr. BOYD: Where did the man who wrote the report get

his idea about non-publication?

Mr. Wells: I have another question to ask you.

Mr. Boyd: I don't know where this report came from, but whoever wrote it was distinctly of opinion—and his opinion confirms my statement—that the object of having the cases withdrawn was to avoid the publicity which they would otherwise have got, and if, as the President states, his desire was to deter others from doing what is wrong, the details of the cases should have been given. The report that appeared in THE CHEMIST AND DRUGGIST is not of the slightest use to deter others. Anybody who read it would simply come to the conclusion that Mr. Samuel Boyd, as an ordinary chemist and druggist, was compounding prescriptions. There is nothing whatever said there—

The PRESIDENT: I don't think we can have this wandering discussion. If you want to get information about the report, the only person you can get it from is the editor of THE CHEMIST AND DRUGGIST. He has a representative in

Dublin.

Mr. BOYD: The fact that whoever sent the report made the statement that it was not to be published in the Dublin

papers confirms me-

Mr. Wells: The editor of a Dublin newspaper who was in court says he was told that the S ciety had come to this arrangement. I deny that the Society came to such an arrangement, and I ask where that information came from? Mr. BOYD: It certainly did not come from me, for I was

not in court at all.

Mr. Wells: I have made the statement deliberately-and let Mr. Boyd contradict it if he can-that while we were present with Mr. Clay he never mentioned the matter of publication at all. Then he says that, as a member of the Council, he is entitled to get more consideration than other geutlemen. I object to that. We are here as honest men to do an unpleasant duty; and if it were Mr. Hodgson himself, one of the most respected men on the Council, that was to be prosecuted to morrow for any supposed breach of the law, any of us who should give information to Mr. Hodgson beforehand would be acting most dishonourably. We have no right to inform anybody of what takes place here. Unpleasant duties come on us here, and we must do them like men; but if we had done what Mr. Boyd suggests, we would have been branded-

Mr. BOYD: What I suggest is that official information should have been given by the Registrar, and that not only

to Messrs. Boyd & Goodwin, but to the others.

Mr. WELLS: I say that no official information should be sent to anyone.

Mr. BOYD: An official caution.

Mr. Wells: Mr. Boyd says that his father would not do what is wrong. (Refers to minute book.) In April, 1882, the Council, after Mr. Goodwin's death, wrote to Messrs. Boyd & Goodwin to know by what right they compounded prescriptions, and on April 24 they replied, saying: "In reply to your letter of the 21st inst., the business is carried on by the surviving partner of the firm under the supervision of a duly qualified pharmaceutical chemist." The Council wrote to say that that would not do, and a letter came in reply, signed "Boyd & Goodwin," saying that "our Mr. Boyd, jun., is going forward for examination in July next, and we shall consider it a favour if you will allow the compounding business to go ou as heretofore till then." The reply of the Council was "that the receipt of Messrs. Boyd & Goodwin's letter be acknowledged, and that they be informed that this Council cannot be a party to any illegal action committed by them." We never had the scratch of a pen, so far as appears, in reply to that from Messrs. Boyd & Goodwin as "Boyd & Goodwin"; but at the same time we wrote to Messrs. Boileau & Boyd-

Mr. BOYD: This is not relevant at all. It is ancient

history.

The PRESIDENT: It has this to do with it-that in one case where a qualified partner left the firm, the surviving partner acknowledged that the dispensing business was unlawful and gave it up; and in the other case, which was precisely similar, the party acknowledged that it was wrong but kept it on. Mr. Wells read a letter saying, "We are in receipt of

your letter relative to our compounding, and, in reply, beg to say that we shall discontinue it." Mr. Boyd was the owner of both places after Mr. Goodwin died and Mr. Boileau left. I find that in July of the same year it was again reported to the Law Committee that not withstanding those letters, Messrs. Boyd & Goodwin were still-

Mr. BOYD: Kindly give the year.

Mr. WELLS: The same year-1882. There is then a statement that the firm were to be tested.

Mr. BOYD: Is there any use in going into this ancieut history ?

Mr. WELLS: Oh, no! Always avoid what shows you up. Mr. BOYD: Show up anything you like as far as I am concerned.

Mr. Wells: You say that we ought to go on giving a man notice after notice.

Mr. BOYD: After ten years' interval.

Mr. WELLS: During those ten years we have been trying Messrs, Boyd & Goodwin's firm time after time, and I and other persons have seen bottles compounded by them for other persons. Then to avoid the Act they got up a partnership with a young gentleman who, as far as we understand, was never behind the counter; and they not only did that but they used the title, "pharmaceutical chemist," as large as life on all their labels. Under these circumstances, it is impossible for Mr. Boyd to say that his firm were not cautioned. As for the summonses, there were two taken out for compounding in each of the three cases; and there was a third in Messrs. Boyd & Goodwin's case, because they called themselves "pharmaceutical chemists" on their labels and envelopes. I know it has been said that I have au ill-feeling against Mr. Boyd and others, because I worked in these prosecutions; but we are doing our duty, and we don't care what people say. Let them do what is right, and not throw stones at us.

The PRESIDENT : I wish to know, Mr. Boyd, why your

father has not yet sigued the undertaking?

Mr. BOYD: I did not know, sir, that that was the case. I shall get it done. There is one statement in Mr. Clay's letter that is not correct. I did not demand any writing. But what I want to point out is that I was distinctly under the impression that these prosecutions were under section 17 of the Amendment Act. If the Council had power under section 30 of the old Act to do what they have done, why did they not do it long ago?

Mr. Wells: That is answered by what I have already stated. Mr. Boyd, of the firm of Boileau & Boyd, admitted our right in 1882 to stop them, for they gave an undertaking to give up compounding, and Mr. Boyd will find that in the section 30 of the old Act.

Mr. BOYD: My father was certainly under the impression that the state of things had distinctly changed since that undertaking was given in 1882, and that his having a qualified partner in the concern altered the circumstances.

The PRESIDENT : It did not alter the circumstances in any case. Many of those who were similarly circumstanced put themselves in the right by acting according to the law. So far back as 1878 a series of questions were submitted to to Mr. Purcell, Q.C., and amongst others this: Whether a partnership was lawful if one partner was qualified and the others not?—and his answer was that such a partnership was not lawful. It was on that ground that we took the matter up in all these cases.

Mr. BOYD: It would be very well if that opinion were published.

Mr. GRINDLEY: It was published.

NEW MEMBER OF COUNCIL.

The first business on the agenda paper was the election of a member of the Council and of the School Committee in

the room of Mr. George L. McCormack, resigned.

The PRESIDENT moved that Mr. Henry Conyngham be elected.

Mr. BEGGS seconded the motion.

Mr. Hodgson said he was sure Mr. Conyngham would make a most excellent member of the Council; but the chemists and druggists were now large subscribers to the Society, and were they not entitled to a little more representation on the Council? There were very few of them

The PRESIDENT: I gladly receive Mr. Hodgson's suggestion, which is quite in accordance with my own views. made the suggestion myself to other memhers of the Council, but their reply was-and I think there is a good deal in it-that at the last general election a certain number of pharmaceutical chemists and a certain number of chemists and druggists were placed on the Council, and that it was desirable that that balance should be preserved in co-opting through the year. I hope that at the next October election some other members of the chemists and druggists' body will be placed on the Council.

Mr. Hodgson: I quite agree with that.

Mr. BOYD: Looking at the calendar I find that there are 391 pharmaceutical chemists and 553 registered druggists and chemists on the register. Those 553 gentlemen have two representatives, and, unfortunately, one of them lives in Belfast, and seldom attends.

Mr. WELLS: Mr. Gibson is a most regular attendant.

Mr. BOYD: I know that Mr. Gibson would attend every meeting if he could. In his absence the entere responsibility devolves on me, and I don't feel capable of fulfilling I was going to suggest that it would he a graceful act on the part of the Council to fill the present vacancy by

an associate druggist.

Mr. Wells: I was one of the persons whom the President spoke to, and I think it is our duty to maintain the balance referred to. Mr. Boyd is hardly doing justice to several members of the Council. There are gentlemen here who represent the druggists quite as well as any member of their own body. I do not think any of them will charge Mr. Hodgson with not representing them. I think that after a while the registered druggists throughout the country will admit that the pharmaceutical chemists have been their hest friends. I understand that the druggists of Belfast are banding together, and saying that they must have protection; and I think that in a short time those gentlemen will find that they are best represented by the pharmaceutical chemists. Though I am looked on as a terrible character amongst them, a great many druggists voted for me at the last election, and I was very much surprised at it.

The motion for the election of Mr. Conyningham was then agreed to.

DR. DUFFEY ON THE EXAMINATIONS.

A letter from Sir William Kaye, clerk of the Irish Privy Council, transmitted the following letter from Dr. Duffey :-30 Fitzwilliam Place, Dublin,

April 11, 1892.

SIR,-I have the honour to acknowledge the receipt of your communication of April 8, forwarding copies of a letter and its enclosure, received

prosecutions of last September the summonses were under from the Pharmaceutical Society, relating to portion of my report on the examinations held by the Society during the past year.

In the report I stated that "from the examiner's marks it would appear that there were eleven candidates who, according to the orders of the Privy Council of April 18, 1888, in force at the time, and regulating these examinations, were not entitled to pass" the Preliminary examination. The examiner says "there is no foundation for this assertion," and his suppositions would infer that my statements were made carelessly, and in iguorance of the regulations of the Society.

The regulation the examiner refers to as that on page 87 of the Calendar of 1891, and on which he acted, is as follows :- "Arithmetic.-The first four rules, simple proportion, and decimals. To describe the weights and measures of the Pharmacopæia, and of the metric system."

On the following page of the Calendar (page 88) are, however, the annexed rules :- "A percentage of 50 per cent, of the cutire marks must be obtained in English and arithmetic, and 40 per cent. ou the entire course, to entitle a candidate to pass."

"The marks will be allocated as follows:-Latin, 23; English, 30; arithmetic, 20; weights and measures, 10; elementary chemistry and botany, 10 each."

Further, in the report on which the examiner returns the result of the examination (vide copy annexed), there are two columns under the group "English," one for the marks given in composition, and the second for those in dictation. Next, there is a column for "arithmetic," and then a separate column for "weights and measures." If the intention was to include the latter marks with those given for "arithmetic," the column would presumably be arranged as for the English group, and separate marks would not be allocated for "arithmetic," as well as for "weights and measures." Therefore, although "weights and measures" is named uncer the heading "arithmetic," in the schedule of the subjects of examination, it is made as completely a separate subject in the allocation of marks as chemistry and botany are separate subjects. Hence, I am of opinion that the marks received in "weights and measures should not be taken into account with" those given for "English and arithmetic," in the calculation of the percentage of 50 per cent, of the entire marks. that "must be ohtained in 'English and arithmetic' to entitle a caudidate tc pass."

For these reasons, I submit, with all respect, that I had ample foundation for the assertion I made, and I am gratified to learn from the reply of the President of the Society to my report (a copy of which reply you were good enough to favour me with) that "the new regulations for this examination will meet my " objections and "enable the examiner to ascertain the attainments of a candidate more in accordance with my ideas."

I fail to comprehend fully the meaning of the examiner's statement that he "had no option but to pass" the three candidates I further partienlarly referred to in my report, whom he does not deny " were very deficient in knowledge of some of the subjects," and that "no discretion was given to him." If an examiner cannot exert his discretion in stopping a candidate absolutely ignorant in some of the subjects of the examination, because by his marks in other subjects he has obtained the required percentage eutitling him to pass, the examination becomes a farce, and ceases to bethe s.feguard for the public the Legislature requires.

I have the honour to be, &c.,

Sir W. S. B. Kaye, Q.C., C.B., GEORGE F. DUFFEY, M.D., Visitor. Clerk to H.M. Privy Council.

PHARMACEUTICAL SOCIETY OF IRELAND.

REPORT OF PRELIMINARY EXAMINATION.

187 Date

G = Good : M = Middling : B = Bad.

	10 La	tin 10	20 Eng	lish 10	20	10	10	10	100		
Names	Frans- Pars- lation ing		Com- posi- tion	Dicta- tion	Arith- metic	and	Elem. Chem. aud Physics	Elew. Btny.	Final Award		
	Examiner										

The PRESIDENT: I fear there is a little friction between our examiner and Dr. Duffey, and that we had better let the matter drop. I think our new regulations will carry out Dr. Duffey's views.

CARRYING OUT THE ACTS.

The PRESIDENT moved, pursuant to notice :-

That the Law Committee be empowered to take such steps as they may think proper with a view to the prosecution of persons infringing the Pharmacy Acts, but must not incur expense exceeding 5%, without first reporting to the Council and getting their

He brought this motion forward to meet an objection made to their existing regulations by the Privy Council. No doubt it had never been the practice of the Law Committee to institute prosecutions or incur any expense at all for that purpose without first bringing the matter before the Council.

Mr. WELLS seconded the resolution. Under the regulations as they stood, the Law Committee had power to prosecute without consulting the Council, but they had never done so. They had always reported the cases to the Council in the first instance.

Mr. Hodgson: Some years ago a resolution was passed that no case was to be taken up by the Law Committee without the sanction of the Council.

The resolution was unanimously agreed to.

The PRESIDENT moved-"That the Council ask the Attorney-General to receive a deputation with reference to the refusal of the police in some instances, to assist them in carrying out the Pharmacy Acts." Two or three district police inspectors throughout the country had told the Council that it was contrary to the rules of their force to ask people to commit a breach of the law, and that, therefore, they could not assist in trying to find out whether persons had violated the Pharmacy Acts or not.

Mr. WELLS: If that be police law, some of the police

break it frequently.

Mr. Grindley: On the other hand, there are a great number of police officers giving us every assistance in their

Mr. Wells, in seconding the motion, said that in the Cork cases the police were written to twelve months ago, and replied that they were watching.

The motion passed unanimously.

THE EXAMINATIONS.

The PRESIDENT said it appeared from the reports of the examiners that at the late Preliminary examination in Dublin fifteen candidates presented themselves, of whom nine passed; that at the examination for the licence eleven presented, and nine passed; and that at the examination for pharmacists' assistants Mr. W. J. Galbraith, the only candidate that presented himself, passed.

ELECTIONS AND NOMINATIONS.

On the motion of Mr. Wells, seconded by the President, Mr. S. McKinney, L. P.S., Cookstown was elected a member of the Society; and on the motion of Mr C. J. Johnston, L.P.S., seconded by Mr. Boyd, Mr. D. J. McGrath, L.P.S., Carlow, was elected a member.

On the motion of Mr. W. J. McNeight, A.D., seconded by Mr. W. F. Moore, A.D., Mr. Thomas Sheridan, Navan, was elected an associate druggist; and on the motion of Mr. Gibson, seconded by Mr. Montgomery, Miss Elizabeth Perrot, Belfast, and Mr. Frederick J. Shields, Belfast, were elected associate druggists.

On the motion of Mr. Wells, seconded by Mr. Grindley, the following gentlemen were nominated for membership of the Society: -Mr. David Boyd, L.P.S., Belfast; Mr. Alfred Lester, L.P.S., Cork; and Mr. John P. Allen, L.P.S., Dublin.

Some other business having been disposed of, the Council adjourned.

BISMUTH GALLATE .- According to the French patent this iodoform substitute is made by dissolving 1.1 kilog. of bismuth subnitrate in nitric acid, and adding to it a solution of 19 kilogs, of gallic acid in 40 litres of alcohol and 20 litres of water. The nitric acid of the mixture is barely neutralised with caustic alkali, an alkaline carbonate, or acctate of soda. By this means a basic precipitate of BiO₂COO,C,H₂COH₃ of a yellowish colour is obtained, which is insoluble in water and free acids.

THE LABOUR COMMISSION.

CHEMICAL EVIDENCE.

N Tuesday the section of the Commission presided over by Mr. Mundella took evidence with reference to the chemical trades. The other Commissioners present were, the Dake of Devonshire, Mr. Tunstill, Mr. Austin, Mr. Mawdsley, Mr. Tait, Mr. Livesey, and Mr. Tom Mann,

GEORGE MITCHELL SPEAKS FOR THE WORKMEN.

Mr. George Mitchell, in reply to the chairman, said there had been two attempts made among the labourers by the Scotch chemical industry of Glasgow, Irvine, and Rutherglen to form a union, but they had only succeeded very indifferently. The reason was that about 75 per cent, of the workers were of a floating character.

Asked if witness represented any Association, he replied that there was no Association, but he had been requested by a number of those employed in the industry to tender evidence. He was the Secretary to the Labour Literature Society of Glasgow, which disseminated literature bearing directly on labour problems. In Scotland there were from 1,000 to 1,400 men employed in the chemical industry, principally at five works. There were other works carrying on domestic manufactures purely of a local character. Disputes had hitherto been settled by the parties coming to a compromise.

Is there a pretty good understanding between employers and employed?-There is always a strained relation between

them

What do you propose to remedy ?-I think there ought to be some legal restrictions on the hours of labour in that industry. There ought also to be a better system of inspection—that is, by the appointment of workmen-inspectors as well as inspectors who only know the trade from a purely scientific point of view. The inspectors are wholly drawn from men who are never outside a laboratory. When they make their inspection the dampers are put down, and consequently they find that the proportion of gases in the flue is generally below the limit.

HOURS OF LABOUR.

What have you to say as to the hours of labour?-I say that in no case ought they to exceed eight hours per day, and in many cases that time is too long. bleaching powder the men work under such conditions that it would be impossible for them to live if they worked the hours permitted by law.

But there is no limit by law ?-No; there is a restriction at the present time, but they can, irrespective of the effects, work any hours they choose. Eight hours is too long in the chemical-works; for instance, at the manufacturing of vitriol and bleaching-powder it ought to be restricted to six hours. The employers ought to use every invention to make the works more sanitary, and then six hours might not be so injurious as three hours are now.

Are you in favour of eight hours per day as the maximum for all labour restricted by Act of Parliament, and that in some instances it ought to be six hours; and that Parliament should interfere to regulate the hours of labour, varying according to the stress and demand?-That is so.

Do you think Parliament should intervene and regulate the hours of labour in every department of every industry of the United Kingdom?- Speaking principally for the industry with which I am particularly acquainted, I see no reason why that should not be done.

If a man worked more than six hours in the vitriol department, would you inflict a penalty ?—I would inflict a penalty on both the employer and employed.

What are the present hours of labour in the chemical industry of Scotland ?- Eighty-four hours per week, working seven days a week.

Do they work on Sundays as well?—Yes, about 60 per cent. of them They work seven days a week of twelve hours per day. The only employes exempted from that are the joiners, plumbers, and engineers. The men are paid every fortnight, and generally on the Saturday on which the pay occurs they are absent. Their exertions are so great that they generally get drunk when they get their pay, and they are unable to

go to work on the Sunday afternoon. In consequence of the physical exertion entailed by their own labour on the pay days the men generally get drunk.

Surely you are libelling that class?—I am sorry that I have to make such a statement, but it is too true. The foremen generally find men by some means or other to keep things going. They work eleven hours on the day-shift, beginning at six in the morning and finishing at five clashed and that which was the same and the shift and the same and the shift and the same an five o'clock, and the night-shift works thirteen hours. Sometimes they have to work five or six hours before they can get anything to eat.

You say that the inspectors are men of a scientific character, but who have no practical knowledge of the conditions THE ATMOSPHERE OF THE WORKS.

under which the workmen work ?-That is so.

What do you say as to the sanitary conditions?-In many of the works there is no ventilation at all, and there are leakages from the indifferent way in which the apparatus is pnt up, and the atmosphere is such that the men have to get ont at the nearest opening into the open air. The gases are so strong that persons not accustomed to them will find their eyes watering a quarter of a mile away.

Is the employment generally injurious to health?-Yes. In the salt-cake department it generally takes the form of bronchitis. The percentage of deaths of men who keep to the chemical industry is terribly high. Three-quarters of the men employed go into other employments. As a general rule the industry is composed of young men. In Scotland about 85 per cert. of the workmen are Irishmen, and probably 5 per cent. Highlanders, the remainder being Euglishmen.

How many years does a man work in the chemical industry ?- I cannot give a statement, but men who are kept at it continuously for three years have to take an excursion to some of the homes for workers at the seaside.

Could the injurious effects be reduced by working shorter hours?-It would to a great extent prevent it, accompanied by better sanitary arrangements for the workers.

THE WORKMEN'S SHARE IN THE PROFITS.

Asked as to the modes of settling disputes, witness said that any of the proposals might do as a temporary arrangement. At present, he said, the workmen are in a defenceless position. Take the chemical industry—the men did the work for those who provided the capital.

Do you think that the capitalist and the scientific man (who does the work of the laboratory and does not take the actual part in the manual labour) live upon the labours of the workmen ?-Yes.

Surely you require capitalists and engineers, and persons who conduct the work, and the merchant who sends the chemicals to all parts of the world and gives credit to Would you allow these people to make any profit?-I want some other arrangement of society, whereby the work would be carried on for use and not for profit.

Does not the capitalist conduct his sales and manage his business?-The latest development is the Alkali Union, which is conducted against the worker. There is not much consideration for the health of the workers.

Your remedy for all the evils of society is State Socialism? -Yes.

Mr. Livesey: Does not the employer make some provision for relieving the men from continuous work ?-No; the men arrange with the men in the opposite shift when they want a Snnday off.

Mr. Mawdsley: If you reduced the hours from twelve to eight would the men accept a corresponding reduction in pay?-The position of the men would not allow of any further reduction.

The men want an eight hours day, but they want twelve hours' pay ?-Yes; the profits of the chemical industry fairly admit of that.

What are the profits?- They are difficult to get at, but there is one employer who is subscribing to the Evangelical tour of the Rev. John McNeil in the Western Highlands, whilst his own men are working for 14s. to 17s. per week.

The Chairman: You mean that he spends money to send missionaries to the Western Highlands ?-Yes.

Do you object to that? - I object to it so long as the workmen are paid miserably for the time they have to work.

To Mr. Mawdsley: Witness could not say what amount of chemicals was exported.

Should not you ascertain the whole bearing of the questionas regards the export and the home trade before you say what the men should be paid?—No; I hold that people's rights ought to be the first consideration, irrespective of home or foreign trade.

In reply to Mr. Tait, witness said that in Scotland the wages in the chemical trade ranged from 13s. 6d. to 17s. per week, while in England it was 17. per week, and this he attributed to Union organisation south of the Tweed. The average period that a man could work in the chemical-works was ten years. Arbitration was the best method of settling disputes.

EFFECTS OF THE GASES ON THE WORKERS.

In answer to Mr. Mann, witness said that the effect of working in the salt-cake department was that a man's teeth became black, and then they dropped out; and the men had to go about in rags as the dust destroyed the clothes. the bleaching department the men always provided themselves with rnm, which they took as an emetic. Something like sea-sickness overcame them. They wore a mnzzle for the bleaching department, and inhaled through a flannel.

Asked to give an instance of any employer spending his money in support of an Evangelical tour in the Highlands, witness said it was the proprietor of the Shottill Chemicalworks who, according to the Evangelical Union Association, was gnaranteeing the expenses of the tonr of the Rev. John McNeil.

Do you want to prevent the system of persons investing and drawing interest out who contribute nothing to the conduct of the trade ?-Yes, that is what I was meaning.

* * The evidence from the Tyneside and Widnes districts will be given next week.

BURLINGTON HOUSE ECHOES.

BY-AND-BY it will be too hot for meeting in the Chemical Society's lecture theatre. The fellows will be glad to give way to Her Majesty's Board of Works if that body is to sanction the alterations which are contemplated for making the atmosphere of the theatre chemically pure. It is scarcely in accordance with the fitness of things thatmen of science should fret and fume in the close atmosphere of a large room in Piccadilly, when outside there is all the evidence of a coming summer. If the nation thought, when it planted here art, education and science, that the disciples of the various cults are very superior persons, whom time and weather do not affect, they were mistaken. Sons of Adam. they all are to a man, and human nature will creep to the surface. It begins now to creep very quickly in the aforesaidtheatre. It shows itself in brotherly love, as exemplified inallowing forty-one candidates for the fellowship to get through the ballot unscathed. Again, it is a dash for priority in discovery, and Professor Danstan and Mr. Dymond just manage to come in by a neck with an announcement regarding the

Existence of Two Isomeric Acetaldoximes.

This does not look a very likely discovery to come out of a Pharmaceutical Research Laboratory, but happening to get a specimen of acetaldoxime, CH2.CH.NOH, in crystals, the authors set about to see what this meant. The crystals began to melt at 37° C., but subsequently the correct melting-point was found to be 465° C. Now, it happens that the acetaldoxime of the text-books is a liquid which does not solidify in freezing, and the above facts appeared to point tothe probability of the crystals being an isomeric form. The authors, therefore, heated the liquid oxime in a closed tubeto 100° C., and on cooling it to 10-20° C., they found that it set to a mass of hard tough crystals. These fused at 46 5° C., boiled at 114.5° C., and gave the same proportions of molecular constituents on combustion. Indications were obtained of the existence of another isomer melting at 12° C. The crystals were long and tough, and to the toughness is due the fact that when the liquefied solid is allowed to cool in a capillary tube, it concretes it corkscrew fashion on the walls of the tube. It seems clear from these results that the solid is an isomeric form of the liquid acetal-doxime, and the discovery is of some importance in regard to stereochemical theories. Messrs. Dunstan and Dymond have not completed their work on the subject, and the reason why they made their statement now was that Professor Franchimont has published something of a similar nature.

Following this communication came one from Dr. Moody, one of Professor Armstrong's assistants, on the "Sulphonic Acids Derived from Anisolis," in which he showed that when Kekule obtained para and ortho acids he must have used impure materials, for only a para sulphonate can be made from the pure. Then came a pleasing letter from

The Veteran Bunsen.

acknowledging the address recently presented to him by the Society. The old chemist was too feeble to write himself, but he had asked one of his colleagues to write to Sir Henry Roscoe, and the letter reflected the pleasure which he felt in looking back on the achievements of the half-century during which he has been connected with the Society. From this to

Trithionates.

On this there was a note from a Professor Spring, who more than twenty years ago published a paper upon the subject which was recently criticised by Mr. Oolefax. The lattersaid that he could get no evidence of the formation of trithionate by the action of iodine upon a mixture of sulphite and thiosulphate of sodium with iodine. To that Professor Spring replies that he did not nse the sodium but the potassium salts, which, strange to say, makes all the difference in the world. The German abstract of the paper, to which Mr. Colefax probably referred, mentioned the sodium salts. Professor Spring says it is best to use half the theoretical quantity of iodine. If the full quantity were nsed tetrathionate would be formed, but with half the quantity reduction of the tetra to the trithionate takes place owing to the reducing action of the sulphite.

The Physical Papers

were by Mr. J. Sakurai, of Tokio, the first being on "The Temperature of Steam from Boiling Salt Solutions." The discussion which followed this justified the acceptance of the note and that which followed it, there being great difference of opinion as to whether the steam is 100°C, or of the same temperature as the solution that it comes from Mr. Sakurai's note detailed the arrangements to be made to ensure proper observation of the temperature, it being necessary to prevent the solution getting to the bulb of the thermometer and the steam from cooling. He conducted the steam through a heated jacket, and with calcium-chloride solution such results as the following were obtained:—

Boiling Solution Steam Jacket

Observed temperatures 112.5° C. . 111.7° C. . 110.5° C.

Mr. Sakurai's next note was on a curious statement which has been made regarding solution of Glauber's salts. If the crystallised salt be heated so that the Na₂SO₄ dissolves in its own water of crystallisation, the temperature of the solution is 72°C, it has been stated, and that of the steam 100°C. This is erroneons, Mr. Sakurai finds, and is simply due to the fact that the steam comes from the edge of the heating vessel, while the thermometer is placed in the

centre, where the heat has not thoroughly penetrated. There was quite an animated discussion on these two papers. It was agreed, regarding the first, that the results could have been predicted by the laws governing the relations between the boiling-point and vapour-pressure; and Professor Crum Brown said the second reminded him of a phenomenon sometimes observed further north—viz., that the porridge could be burnt and yet one could stick one's finger into it without, hurt,

Trade Hotes.

WEED-KILLERS.—Messrs. W. Butcher & Son, Blackheath, referring to the comments we thought it right to make last week on their weed-killer, inform us that they have now adopted the appended label, which they attach permanently to every can and drum they send out:—

This liquid is a strong solution of arsenic, and must be guarded with the utmost care. The can must not be used for anything else but weedkiller.

They attach this, we understand, to the top of the can, as shown in the engraving. They do not consider that their preparation is a colourless one in the sense of the Arsenic Act, which is a point of law which we do not propose to



decide. Any way, they agree with us that the utmost cantion should be used by the trade in supplying this article to the public.

We have also a note from the Acme Chemical Company (Limited), of Tunbridge, whose weed-killer has been before the trade for some time. They call our attention to the fact that they colour their "Acme" weed-killer blue, but not so as to stain the gravel when diluted. Also they paint the word "poison" on the drums, and drums and tims all have affixed to them a brass label bearing the following inscription:—"Acme Chemical Company (Limited), Tunbridge and Bolton. For poison only." They say they are doing all they possibly can to safeguard the public, and are confining the sale of the article to chemists, as they are bound to do.

CHEMISTS' ASSISTANTS' ASSOCIATION.

AT the annual general meeting of this Association, held on Thursday, May 5, the annual report of the Council was read by one of the honorary secretaries, Mr. J. C. Stead. It stated that the members now numbered 190, 101 having been enrolled during the present session. The patrons numbered 49, an increase of 5. The average attendance

had been 37. Twenty-eight papers and notes had been read at the business meetings of the session. The innovation of providing refreshments at all the meetings had proved a success, and the scheme had been economically carried out, the cost only slightly exceeding that of the refreshments provided at the musical and social evenings only of the preceding session. The only disappointment was that the Council were unable to award the silver medals and money prizes for essays and research, the work in none of the applications coming up to the standard which would justify the awards. The financial state of the Association's affairs was satisfactory.

The President (Mr. W. Lloyd Williams) moved the adoption of the report, which was seconded by Mr. Frank A. Rogers, and carried unanimously.

The Treasurer (Mr. C. J. Strother) then read the balance-

sheet for the session 1	.891_92 :	-
Receipts.		#xpendi
2	£ s, d,	
Balance in hand	8 10 7	Rent
Grant from publishing		
fund	20 0 0	Proceedings
Subscriptions —		Stationery and prin
190 members	47 10 0	Printed postcards
49 patrons	25 12 6	Postal wrappers
Balance from dinner	10 11 8	Stamps
Publication of reports	7 17 9	Refreshments
Donations—		
Vice-president of the		Conversazione
Pharmaceutical		Piano
Society	1 1 0	Grant to publishing
Allen & Hanburys	1 1 0	Sundries
Attfield, Professor	0 10 6	Balance in hand
Barclay & Co	1 0 0	Dalance in nami
Barron, Harveys & Co.	1 1 0	
Burgoyne, Burbidges & C	0.1 1 0	
Burroughs, Wellcome		
& Co Chemists' A. & M. W. As	5 5 0	
Ciation	1 1 0	
Davy, Yates, & Rout- ledge	1 1 0	
	1 1 0	
Evans, Lescher & Webb		
Hearon, Squire & Francis Hill & Son	1 1 0	
Hill & Son Hodgkinson, Prestons	1 1 0	
	1 1 0	1
Hodgkinsons, Treacher	1 1 0	1
& Clarke	1 1 0	
Idris & Co	1 1 0	
Ingram & Royle	1 1 0	
Maw, Son & Thompson	1 1 0	1
Meggeson & Co	1 1 0	
Morson & Son	1 1 0	1
Newbery & Sons	1 1 0	
Portman Rooms Co	1 0 0	
Sanger & Sons	1 1 0	
Savory & Moore	2 2 0	
Seabury & Johnson	1 1 0	
Silverlock	1 1 0	
Smith & Co	1 1 0	
Stuart, J. E	0 10 0	1
Thompson, Walters,		
Hole & Co	0 10 6	
Toogood, W	1 1 0	
Wright, Layman &		
Umney	1 1 0	
Rent of Piano	5 0 0	
Advertisements	4 14 6	
Sale of proceedings	0 2 6	
	2165 0 6	

1	#xpenditure.	
	## ## ## ## ## ## ## ## ## ## ## ## ##	3 11 11 11 11

This statement which had been audited by Messrs. Sage and Garnett, was adopted without dissent.

For the election of the Council for the coming session the scrutineers announced that eighty-four voting-papers had been received of which one was informal. The voting was as follows .-

Morris, W. A.	 80	Robins, H. H.	 63
Stead, J. C	 78	Parry, E. J	 57
Williams, W. L.	 76	Seccombe, C. W.	 50
Ellwood, T. A.	 76	Harrison, E. F.	 47
Strother, C. J.	 70	Robinson, H. A.	 47
Walton, S. A.	 68	Burnett, E. E.	 45
Rogers, Frank A.	 65	Sage, C. E	 43

The above form the Council. The following votes were also

Morley, C	42	Hobbs, A. E	40
Shepheard, W. J	40	Pearmain, T. H.	31
	Care.	H. B., 12	

After votes of thanks to the scrutineers and to the auditors, the President read a valedictory address, after which a hearty vote of thanks was passed to him for his able fulfilment of the presidential office.

The Secretary has drawn up for us a table showing the progress of this Association from its foundation onwards. The record is of particular interest in showing that in all respects the prosperity of the Society is just now at the highest point yet reached.

Personalities.

A LARGE and elegant pharmacy is being fitted for Mr. Gough, chemist, Burnham, by Messrs. Vale Brothers, shopfitters, &c., of Weston-super-Mare.

MR. JAMES KEEBLE, formerly with Mr. Gordelier, of Sittingbourne, Kent, has purchased the old-established busi-ness of Mr. Tame, chemist, Thame, Oxfordshire.

MR. S. M. BURROUGHS, who wrote us last from Tangier, turned up in Berlin last week, for the purpose (says the Pharmaceutische Zeitung) of closing a large contract for He has this week returned to London, after lanoline. seven months' travelling in France, Italy, Spain, North Africa, and Germany.

MESSRS. HOPKINSON & Co. announce the dissolution of the firm's partnership by mutual consent, Mr. Thomas Hopkinson retiring from the firm, which will still be carried on at Park Street, Nottingham, by Mr. W. T. Forbes, under the style of William Forbes & Co.

DR. DE VRIJ is in London for a few days, and favoured us with a call on Thursday. The gallant old quinologist is within twelve months of his 80th year, but is very hearty and cheerful. He took his diploma as a pharmacist at Dordrecht on June 6, 1832, very nearly sixty years since.

Mr. E. J. Burrow, of South Cambray Lodge, Cheltenham, who was a chemist's assistant a few years ago, has for some time since established himself as an artist. He won a prize in one of our design competitions, and it was that circumstance, he tells us, which induced him to enter on his present career. He sends us some extremely well-executed etchings £165 0 6 as specimens of his work.

CHEMISTS' ASSISTANTS' ASSOCIATION STATISTICS.

	1877-78	1878-79	1879-80	1880-81	1881-82	1882-83	1883-84	1824-85	1885-86	1886-87	1887-88	1888-89	1882-90	1890-91	1891-92
Number of members Members enrolled	56	53	75	84	83	90	61	114	131	165	149	171	164	152	190
during session Patrons	=	=	21	33 7	23 7	55 17	12 10	72 30	52 27	72 34	57 35	66 43	47 44	46 44	101 49
Balance at end of Fession	-	£ s. 18 11	£ s. 10 5	£ s. d. 31 5 3	_	_	-	£ 25	£ s. d. 24 1 0½	£ s. d. 31 2 3½	£ s. d. 31 7 0½	£ s. d. 29 3 4	£ s. d. 31 3 1	£ s. d. 8 10 7	£ s, d, 37 3 8½

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Editorial Comments.

POISONOUS PATENT MEDICINES.

IT has been decided by those most closely concerned not to appeal from the Magistrate's decision in the chlorodyne case. The proprietor of that preparation will in future attach a

label to every bottle which will indicate its character in the manner required by the Pharmacy Act as it was interpreted last week by the Bow Street Magistrate. It would have been in some respects more satisfactory if the questions involved could have been finally disposed of by a trial in the High Court, but we cannot be surprised that Mr. Davenport should have been disinclined to undertake at his own cost to obtain judicial pronouncements for the gratification of adversaries whose interests are, to say the least, not coincident with his.

There is, of course, no assurance that all the makers of proprietary medicines containing poisons will accept the decision in the chlorodyne case as binding on them, but there is reason to believe that the Association which has carried the matter to the present point will not rest content with a mere forensic victory. Manufacturers not satisfied with Mr. Lushington's interpretation of the law are likely to have plenty of opportunity of challenging it. It would be grossly unfair to enforce the Act in the case of one proprietary medicine only.

Then comes the more delicate question, in which chemists are particularly interested, of the vendor. Mr. Lushington's judgment clearly covered this part of the question. He held that the term "patent medicines" in the 16th section of the Pharmacy Act applies only to medicines which have actually been patented, and therefore the exemption from the effects of the first fifteen sections of the Act in regard to "the making and dealing in patent medicines" does not authorise unregistered persons to sell poisons merely because they are sealed up with the Government stamp. This view was first definitely expressed in Mr. Alpe's "Handy-book of Medicine-stamp Duty," and has since been endorsed by every legal authority who has publicly expressed himself on the subject-Mr. Poland, of course, excepted. We do not expect it will be overthrown if it should ever be argued before the judges of the High Court, but it must be admitted that the patent-medicine people generally have some ground for complaint at having the ground cut from under them to the extent that this is done by the adoption of this construction of the section. When the Pharmacy Act was under consideration in Parliament their opposition, which would have been formidable, was bought off by the insertion of the exemption quoted. There can be no doubt, we should suppose, that the promoters of the Bill and the makers of the so-called patent medicines meant by the clause just such preparations as chlorodyne. That they meant only medicines which were or had been actually patented is hardly conceivable, for it is doubtful whether there were any such of a poisonous character in existence.

It may be said that if the patent-medicine people were content with a vague definition in 1868 they must take the consequences of their carelessness in 1892. This they have to do, but the sense of injustice remains. And it is difficult to say how the medicines intended to be exempted could have been defined unless they had been specifically scheduled.

But, whatever might have been intended in 1868, it is hardly doubtful that the desire now on the part of those in authority is very distinct in regard to the limitation of the sale of poisons in any and every form. If poisonous proprietary medicines were exempt from the operation of the Pharmacy Act, there is an influential section of people who would demand an amending Act to include them. This is the circumstance which will justify the Pharmaceutical Society in taking action against unqualified vendors. And we understand that even if the Society were anxious not to exercise the powers entrusted to them, they would soon be called upon to move in the matter.

It seems certain, therefore, that makers of proprietary medicinal articles containing any form of scheduled poison must reckon on the condition that their specialities will have to be supplied to the public through the hands of registered chemists alone. It may be added that, thanks to the steadfast refusal of the Pharmaceutical Council to try to get their Act amended in relation to limited companies, these formidable rivals may also keep open shop for the sale of these goods. It must be remembered that the "seller" of such goods is required to be qualified, and chemists who put up their own specialities must not forget that the law applies to these as well as to the more widely known articles. We may remark that it is still a doubtful point whether the name of the poisonous ingredient need be placed on the label as well as the word "poison," but the name and address of the seller (that is, of the person who keeps the open shop) must be on the packet, and "the name of the article." It is quitereasonable to assume that "chlorodyne" (to take the mosthandy example) is the name of the article in that case, and that in naming the poisonous ingredients on his labels, Mr. Davenport is going a little beyond what the law actuallyrequires.

If chemists are to have the monopoly of the retail trade inpoisonous patent medicines, they should show, we think, special consideration towards the makers of these. They ought at least to put no difficulties in the way of persons wishing to purchase them, nor ought they to expect more than a reasonable profit on the sale of them. These are principles of fair play to which our allies, as the makers of these products will now have to be, are reasonably entitled.

RECENT RESEARCH ON SARSAPARILLA.

For the last three hundred years sarsaparilla has been employed in Europe as a remedy against syphylis, and although all record of the circumstances under which the drug acquired its reputation is lost, it still retains an important position in pharmacy in spite of the opinion of some representatives of medical soience that sarsaparilla should be relegated to the useless lumber of the apothecary. In Russia sarsaparilla has become a popular remedy notwithstanding the opposition of physicians, whilst in France enormous quantities are used at times, and the consumption is also considerable in England, Italy and Germany.

The results of a chemical and physiological examination of the commercial drug recently undertaken in the Dorpat laboratory under Professor Kobert's guidance by W. v. Schulz, must possess interest for pharmacists as well as for medical men and pharmacologists, especially as sarsaparilla is again taking a prominent rank in certain quarters as a syphilitic remedy. Hitherto little has been accurately known with respect to the active constituent of the drug, and the literature relating to physiological experiments with it is exceedingly scanty. That the active principle is of a glucosidal nature and nearly related to or even homologous with saponin was first pointed out by Flückiger, who gave the substance isolated by him the name of parillin; whilst about sixteen years ago a pharmacologically active saponin was prepared from sarsaparilla in Dragendorff's laboratory which differed in many respects from the saponaceous substances known at that time. Numerous other more or less definite substances of an allied nature have been isolated and described by various investigators at different times, but apart from the differences in results that might arise from the examination of products from different sources, there can be little doubt that the method of preparation adopted would considerably affect the physical and even the chemical characters of compounds so unstable as are many of the glucosides, which frequently appear to split off successive molecules of sugar from the mother-substances, and yield new compounds that are themselves glucosides and liable to be confused with the original substances present in the plant.

In the present investigation Professor Kobert has followed a wise policy in directing that the products obtained by other experiments, such as the insoluble parillin of Flückiger and the saponin or smilacin of Dragendorff, should be examined simultaneously with the crystalline glucoside sarsasaponin, isolated and described in the present memoir by W. v. Schulz, with the view of attempting to establish the relationship existing between them. Experiment shows that although all these compounds are different, they are members of a homologous series to which Professor Kobert in 1890 assigned the general formula C, H, n-sO, The lowest member is smilacin, or sarsaparillsaponin, as it is proposed to term it, which possesses the same formula, C20 H32O10, that corresponds to the values found for digitorin. cyclamin, and quillaic acid. The sarsasaponin has the formula C22 H26O10, parillin C26H41O10, whilst it was also observed that the melanthin of Henry Greenish is apparently also a higher member of the same series with the formula CasH 50 O10. Hydrolytic experiments showed that not only could these substances be split up into sugar and non-saccharine bodies like parigenin and sarsasapogenin, but that the sarsaparilla glucosides contain several sugar radicles, which can be split off successively by treatment with dilute sulphuric acid, the sugars obtained being ordinary dextrose and galactose.

These three glucosidal substances obtained from sarsaparilla belong to the pharmacological group of saptoxin in their action, and after internal administration to cats no absorption was observed, but only local action, such as nausea, increased flow of saliva, and diarrheea, although rabbits appeared to bear the administration per os without any such local disturbances. It would, therefore, appear that these glucosides are not readily absorbed into the human system so long as the intestines are in a normal and healthy condition, but that their action depends upon the production of nausea and motions of the bowels. Subcutaneous injections of any of the three substances caused large purulent abscesses, sarsasaponin apparently possessing the most intense action when introduced into the blood, and only requiring 50 milligrammes per kilo. of body-weight as a lethal dose for cats and dogs. Parillin is next in activity, with 120-150 milligrammes for the lethal dose, whilst sarsaparillsaponin was found to require a dose of 165-230 milligrammes. The three saponins act as cardiac muscle and nerve poisons in intravenal injections, and cause hæmoglobinuria even in small doses.

The results of this investigation are condensed into a pamphlet of about one hundred pages. Among the other conclusions suggested, it appears that the Vera Cruz and Mexican sarsaparilla are the most useful varieties of the drug in respect of medicinal value.

PARAFFINATED MOGADORE WAX.

AMONG the many parts of the world which supply us with beeswax, Mogadore, in Morocco, has always possessed an unenviable notoriety for the aptitude of its merchants in the adulteration of this important article of commerce. Goat'sfat has usually been the Mogadorian's favoured adulterant.

Sophistication of this sort was really not a very obnoxious matter, for everybody who had to do with Mogadore wax knew the trick, and the manufacturers who employed the article found no difficulty in separating the wax from the grease. But, in the course of last year, the ingenious Mogadore merchants discovered a new adulterant, with which for a few weeks they deceived, and for many weeks puzzled, their customers. One of the principal buyers of Mogadore wax in London called our attention to the fraud, and begged us to test a sample of the adulterated stuff, for which his customers had no use, because they did not know how to separate the adulterant from the genuine material. We ascertained that the wax contained 65 per cent. of paraffin, and duly made the fact known. Shortly afterwards this particular form of sophistication ceased, while the paraffinated parcels yet on hand became practically unsaleable. At the time the correctness of our analysis was questioned by more than one firm interested in the sale of the wax, and it was confidently asserted that paraffin wax as an adulterant was impossible in Mogadore, because it would be far too costly to import for that special purpose. We had almost lost sight of the matter, and would not have referred to it again now, but for the recent publication of the annual report of our Consul in Mogadore upon the trade of his district. In that document there occurs a paragraph proclaiming, with much self congratulation, how British trade is spreading, and how British commodities are increasingly appreciated in the empire of the Moors. That, after the usual jeremiads about German competition from all other parts of the wo:ld, was indeed pleasant intelligence, and with growing interest we read on. "Candles," so we were told-"cheap paraffin candles," were a large article of import into Mogadore in 1891, and it was in this particular business that the growth of British commerce, "so gratifying to our patriotism," found its chief expression. Formerly France had almost a monopoly in supplying Mogadore with candles. In 1883, 585l, worth of this useful illuminant (and adulterant) came from France, and only 43l. worth from Great Britain. In 1891, 1,063l. worth came from France, 1,000l. worth from Germany, and 7,4771. worth from England. And how is this remarkable increase in the candle consumption accounted for? Is it evidence of the growing enlightenment of Morocco? Has "Light, more light!" become the national motto? Alas! no. "This very large increase," continues the Consul (so gratifying, be it noted, to British patriotism), "must partly be accounted for, it is to be feared, by the fact that for a time candles were largely used to adulterate native beeswax for export, and were imported for that purpose-a shortsighted trickery which soon defeated itself by spoiling the market for such wax, through the immense fall in price on certain European markets immediately consequent on the discovery of the admixture." Meanwhile the exports of "beeswax" from Mogadore in 1891 were valued at 14,760l., nearly double the value of the 1890 exports. In 1891, 9,2881, worth of the wax went to England, 2,7361, worth to France, and 2,304l. worth to Germany. The latter country, by the way, has commenced, during the last few years, to import several kinds of drugs direct from Mogadore, apparently with fair success.

This—temporarily successful—attempt to import cheap parafin candles from England into Africa, and ship them back again to London in the proportion of two of paraffin to one of beeswax to deceive English buyers, paying freight and expenses both journeys, may form a not uninteresting contribution to the history of "Modern Business Methods."

Drinks predicts a good season for the aërated water trade. "The prospects are really better than they have been for some time."

COMMENTARY.

AN EASTEIN QUACK.—A Ringoon correspondent sends us an advertisement cut from a paper published in that city, in which "the famous Hakim Najat Ali, Shah Kadiri, of Bagdad," with offices at Calcutta and Bombay, announces his ability to core asthma, bronchitis, paralysis, and a long string of other diseases, "according to constitution." The Hakim says he "holds first-class registered certificates considered by doctors as incurable." This looks bad for the certificates. The advertisement announces that "a telegram has just been received from His Highness the Makore Saheb of Morvi, M.R.W., who has consented for a fortnight to pay him 200r. daily for his visit, and after that 250r. per day." On such an offer His Highness can hardly expect to get onred in less than three weeks.

AN AMOROUS APOTHEKER'S APPEAL.—Some German pharmacists may be content to come to this country on the chance of ploddingly grabbing their way to wealth along the miry track of competition, but a more expeditious and less exacting device presented itself to the mind of one of the fraternity, who recently inserted in a Berlin journal, the Vosische Zeitung, an advertisement for an Eoglish companion who would share his prospects by attaching herself to him by the silken cords of matrimony, while contributing simultaneously a sufficiency of British gold to admit of the acquisition of a smitable establishment. This is how the pharmacist expressed his modest desires:—

MARRIAGE!

Wanted, acquaintance with a well-educated, wealthy Lady, about 30 years of age, by an Apothecary of officer's rank, worth 10,000m, going to buy a big pharmacoie in Berlin or a similar city. Secret by parole of honour. Please to be made errnest applications sub Y. S. 481, by this paper. Agents declined.

Is it possible to think that such a touching appeal may have passed unheeded?

ASH OF GREEN EXTRACTS .- It is a somewhat remarkable fact about the green medicinal extracts that they contain an amount of mineral matter which would scarcely be credited by those who have not made any determinations on the point. Dr. W. C. Traub, writing to the Schweiz. Wochensch. für Chimie und Phar. gives fignres for belladonna, hemlock, and henbane, which we may quote, the extracts being spiritnous-ie, prepared from the fresh leaves with a spiritnous menstrunm. Three samples of belladonna extract yielded 1834, 1955, and 2065 per cent. of ash, in which there was from 65 to 78 per cent. of K,CO, Two samples of henbane extract yielded 19.4 and 21.23 per cent. of ash, the K2CO3 in this case being 54 and 56 per cent.; and while the ash of hemlock extract was 18.8 per cent, the percentage of K2CO3 was only 39. All the extracts, we may say, contained at least 20 per cent. of moisture. Obviously one can judge with some approximation from the potassium content of the ash alone what the sonrce of the extract is. Aconite-leaf extract contains a relatively low amount of mineral matter.

AN HISTORIC BERLIN PHARMACY.—The green-painted little honse on the Chaussee-Strasse in Berlin, known as Schering's Grüne Apotheke, which for more than sixty years has been the home of one of the best-known pharmacies in Enrope, is now in the process of demolition, only, however, to rise again from its rains in a garb more in conformity with modern ideas and the importance of the basiness. The house was bnilt in 1830 npon a plot which had previously been a market garden, and opened as a pharmacy. In 1851 it passed into the hands of the late Mr. Ernst Schering, an accomplished pharmacist and far-seeing

man of business, though then still an obscure individual npon the threshold of his career. Mr. Schering painted the edifice green all over, emblematical of his hopes of business snccess, and green it has been ever since. In the modest laboratory on the Chanssee-Strasse the foundation of the world-renowned Schering's Chemische Fabrik was laid, and here in 1863 the apotheker who founded the house prepared for the first time extract of malt, and a few years later pepsine essence, now domestic remedies known all over the world, but of the coming importance of which he had probably not the remotest idea. The growing importance of the manufacturing department soon necessitated its severance from the pharmacy. The latter afterwards passed into the hands of one of Mr. Ernst Schering's sons, who is still, we believe, the proprietor, while another son acquired a leading interest in the factory.

"Too PREVIOUS."-The Royal Society have just published a paper by Mr. J. J. Waterston on "The Physics of Media composed of Free and Perfectly Elastic Molecules in a State of Motion," which was communicated more than forty years ago, and which was then declared by one of the Society's experts to be "nothing but nonsense, nnfit, even, for reading before the Society." Professor McLeod says that the chemical views advanced in this paper, "shadow forth many of the ideas of modern chemistry, and the paper might have been the means of hastening their reception by chemists." Waterston distinctly expressed the opinion that "a molecule in motion, without any force to restrain or qualify it, is in every respect to be considered as a free projectile. Allow such free projectiles to be endowed with perfect elasticity, and likewise extend the same property to the elementary parts of all bodies that they strike against, and we immediately introduce the principle of the conservation of vis viva to regulate the general effects of their fortnitons encounters." All this is not unlike our modern kinetic theory of gases, and the paper as a whole is so interesting and important that Lord Rayleigh has seenred its ophlication in the Philosophical Transactions.

PHOTOGRAPHIC NOTES.

PHOTOGRAPHY IN THE COLOURS OF NATURE.

ON Tuesday afternoon, Mr. Frederick E Ives, of Pailadelphia, lectured on this subject to a select audience at the Royal Institution, this being the first of a half-guinea course of two lectures. So far as his own invention is corcerned, Mr. Ives made no pretension that it is an original discovery, for in an historical sketch he did full credit to Mr. Collin, of H.M. Patent Office, who more than a quarter of a century ago conceived the idea of getting three negatives of an object through primary coloured glasses, and, snperimposing these, obtaining a print from the composite plate. This idea could not be carried out in practice owing to the want of plates sufficiently sensitised, but Ducos Du-Hauron, of Paris, in 1868 made some advance upon Collin's method, and so did Cros and Poiree. Next, Dr. Vogel conceived the idea of introducing colour-sensitisers in the shape of dyes of appropriate colour, and from this point considerable advance has been made. All these processes, as well as Dr. Albert's chromo collotype process and Dr. Stolze's suggestions, were criticised by Mr. Ives, in the light of the Young-Helmholtz theory of colonr-vision and the relative power of the different spectrum rays.

The practical ontoome of this argument was to show that the use of red, yellow, and blue media, pure and simple, would not suffice to give a perfect picture. That, in a large measure, is where previous experimenters have failed. With the Yonug-Helmholtz-Maxwell spectrum wave-lines as his guide Mr. Ives uses colour media which are not pure red, yellow, or blue, as the case may be, although to the ordinary eye they lock so; but these media are mixtures of definite

proportions of colour, the proportions being obtained from a study of the spectrum colours and practical experiment. Tous the red is really a mixture or blend of the spectrum colours from the extreme red to the centre of the orange. This portion is what appears to be all red when viewed by a person with mono chromatic vision (red). The yellow, or properly speaking green, medium is a blend of the colours in proper proportion from the orange to the bright green of the spectrum, and the blue takes up the running from that point to the extreme violet.

In the next lecture, Mr. Ives proposes to speak in detail of the cameras, lanterus, plates, &c., by which the colour-photographs are taken, but on Tuesday he referred briefly to these and showed a picture on the screen, as well as a number of photos and his helicotromoscope.

Mesnwhile, therefore, we need only say that the camera is very like an ordinary ore, but instead of the dry plates going at the back of the body, they are placed at the top, in the place indicated by A in the following diagram. There is only one lens, but by means of mirrors and other outical



arrangements three images are thrown upon the plate, and each image passes through a coloured film, three of which are arranged as follows:—



The consequence is that a greater or less degree of density is obtained on the negative according to the nature of the colour. Doviously ret colours have the deepest shadows on the hine image, and so on. Development, &c., is performed in the ordinary way. Positives taken from the negatives look like ordinary photographs, but are of course transparent, and the three images show the contrast of colour only in greater and less density at particular parts.

Before such a picture can he seem in nature's colours, it must be placed either in a triple lantern or the "heliochromoscope," which is Mr. Ives's invention. In the lantern the lenses are arranged as above, with violet, green, and red films in front of the lens, and the light-rays so directed that they meet on the screen to form one circle of white light with a coloured halo round it which shows its origin. As soon as a triple picture is put in, the colour and light and shade come out in all their natural beauty. The picture thrown upon the screen was a reproduction of a small chromograph standing in front of a background of blue, red, yellow, green, and other coloured stripes. This object was in front of the audience, and it was impossible to distinguish between it and the screen picture.

between it and the screen picture.

After the lecture the "helicohromoscope" was shown. This looks not unlike the camera, and the optical arrangements inside it blend the triple picture to make one image, the effect in the case of a pot of scarlet geraniums being decidedly charming. We presume that the "helicohromoscope" is to take the place of the old stereoscope. This is part of the invention which is protected by patent, and although Mr. Ives has not yet got it to a state of perfection, doubtless nature-coloured pictures will ere long be familiar and in demand.

LANCASTER'S NEW CATALOGUE.

We have received a copy of the 1892 catalogue issued by Messrs J. Lancaster & Son, of Birmingham. It is artistically printed in hrown ink with pale blue margin of quairt design. It is a complete price-list of all the cameras and photographic requisites required by amateurs, the information regarding Lancaster's well-known sets being specially valuable to retailers. We notice, by the way, that over 30,000 of the "Instantograph" cameras have heen sold. The firm now make these and other cameras with aluminium mountings.

"How To Buy"

Those who are on the outlook for bargains should see the "job-list" just issued by Mr. Jonathan Fallowfield, 146 Cbaring Cross Road, W. The whole range of photography appears to be included in the cheap lots.

THE "RADIAL" CAMERA.

Messrs. Marion & Co. are now making their popular "Radial" hand-camera in lantern and half-plate sizes, as well as quarter-plate. It is obviously of immense convenience to have a high-class instrument like this in lantern size, and the "Radial" has the further advantage of being very light.

DEVELOPING-DISH, ROCKER, AND SCREEN.

This apparatus, one of the many patented novelties of Mr. C. C. Vevers, 12 Market Street, Leeds, serves three purpose—4e, developing-dish, a simple rocker, and a screen to keep off light, and so lessen the chance of fogging the plate. The parts are all detachable, and no dark-room should be without them.

BANKRUPTCY REPORT.

Re RICHARD VERITY, 64A, Seymour Street, Portman Square, W., Chemist and Druggist.

Tits debtor has presented his petition at the London Bankruptcy Court, and, on the application of Mr. C. H. Staniland, solicitor to the proceedings, the usual receiving order has been made. The debtor states that he formerly carried on business at 523 King's Read, Chelsea, but left there last December, and has since traded at Seymour Street. He now pays 1200, rent per annum, but is one quarter in arrear. The fittings belong to the landlord, and the Sheriff of London having heen put in possession at the suit of Natale & Co., an interpleader is pending in respect of the fittings. The stock is valued at 201. to 302, if disposed of by a forced sale. The business being a cash one, there are no hook debts, and the debtor further states he has no furniture or other assets.

DEED OF ARRANGEMENT.

The following deed of arrangement with creditors has been filed at the Bills of Sale Office, under the provisions of the Deeds of Arrangement Act, 1867. Some of these deeds are for the purpose of carrying out compositions with creditors (and such are specified below), but the great majority of them are "assignments" in the ordinary form, to a trusteeor trustees, for the benefit of creditors. The Act referred to expressly provides that registration shall not give validity to any deed which is an act of bankruptey, and there is no provision, in the Act making any of these arrangements binding upon dissenting creditors.

Kirkness, Robert, 11 and 68 Main Street, Cadoxton, chemist. Trustee, Charles E. Dovey (Clarke & Dovey), Queen Street, Cardiff, accountants, Dated May 7; filed May 10. Unsecured liabilities, 243. 14s. 5d. estimated net assets, 1407. The following are scheduled as creditors:—

		£ s.	d.
Christie, Malcolm & Co., Newcastle-on-Tyne		10 16	3
Davis, Richard, Cardiff		11 5	0
Hippell, W. J., Aberdare	••	35 0	0
Ismay, John & Sons, Newcastle	••	79 18	2
Simcock, T. W., Leeds			4
South Wales Union Bank, Cadoxton		43 14	5
And ten under 10%.			

MARRIAGES.

[Notices of Marriages and Deaths are inserted free if sent with proper authentication.]

HALL—BROWNLEE.—At Darnawa Cottage, Sir Lowry Street, Cape Town, on April 14, by the Rev. Vine Hall, John Hall, chemist, Claremont, to alexandrina Wyness, eldest daughter of James Brownlee, of Aberdeen, Scotland.

KEEBLE—RUGG.—On April 5, at the parish church, Sittingbourne, by the Rev. S. Wilkinson, Mr. James Purcell Edward Keeble, chemist and druggist, of Woolwich, to Elizabeth, youngest daughter of the late Mr. Charles Octavius Rugg, of Meopham, Kent.

DEATHS.

BOWERS.—Mr. Robert Bowers, the father of Messrs. Bowers Brothers, the chemists' printers, of Blackfriars Road, died a few days ago, at the age of 74.

CARR.—On May 1, at Wharf Street, Leicester, Mr. William Carr, pharmaceutical chemist. Aged 69.

HILLS.—On May 3, Mr. Francis Clarke Hills, the head of the firm of F. C. Hills & Co., manufacturers of ammonia, sulphuric acid, and other chemicals, died at his resideace, Redleaf, Penshurst, Kent, at the age of 84.

HOEMANN.—Professor August Wilhelm Hofmann, one of the greatest chemists which Germany has produced, died at his residence in Berlin on May 5 of paralysis of the lungs. The deceased scientist was born at Glessen in Prussia on April 8, 1818, and after first studying modern langnages devoted himself to chemistry, under Liebig, at the University of his native town. After gradnating he acted as Liebig's assistant until 1845, and during that time began to devote special attention to that investigation of the coal-tar bases and the synthesis of indigo which afterwards rendered him famous. From 1845 to 1848 Hofmann acted as private teacher in Bonn, whence he migrated to London, where he had been appointed superintendent at the Royal College of Chemistry in Oxford Street, now the chemical department of the School of Mines. Among those who attended Hofmann's lectures in Germany were Prince William of Prussia, afterwards William I., German Emperor, and his son, the late Emperor Frederick. Until close upon his death the old Emperor William was kept constantly informed of the pro-



gress of chemical science by Professor Hofmann, and one of the first acts of the late Emperor Frederick upon ascending the throne was to confer a patent of nobility upon his former teacher, with whom he was upon terms of close personal friendship. Professor Hofmann remained in London nntil 1863, and became as well known and esteemed in England as he had been in Germany. Many prominent living British chemists studied under him, and with all his pupils the professor was

equally popular. In 1851 he was made an K.R.S. and in 1854 a royal medal was conferred npon him for his "Memoirs on the Molecular Constitution of the Organic Bases." In 1863 the Prinsian Government asked Hofmann to undertake the reorganisation of the chemical laboratory at Bonn University, and in 1863 he was appointed Professor of Chemistry in Berlin, a position which he has held ever since; indeed, his last lecture was given on the day before his death. Professor Hofmann was a great friend of Italy; his vacations were mostly spent in that country, and he was on terms of close friendship with many prominent Italian statesmen, authors, and scientists. Professor Hofmann's doctor-jubilee was celebrated with great purp last year in German University and chemical industrial circles. He may be said to have been the father of the modern coal-tar industry, the development of which dates from his discovery of the composition of aniline red. His studies were principally in the domain of organic bases, and he was a nah e was a

voluminous writer upon this subject; one of the most beautiful aniline dyes—"Hotmann-violet"—has been called after him. In 1868 Hofmann founded the German Obemical Society, of which he was the first president.

Hughes.—On May 7, at Llangefni, Anglessy, suddenly, from apoplexy, Mr. Robert Hughes, cnemest and druggist. The deceased gentleman was highly respected, being popularly known in the district as "the Mayor of Llangefni."

JONES.—On May 5, Mr. William Withers Jones, pharmacentical chemist, Southwell Street, Kingsdown. Aged 61. Mr. Jones was for many years with the firm of Messis. Webb, Fardon & Co., of Castle Street, and then entered into business on his own account; one establishment being in the Hotwell Road and another in Southwell Street, Kingsdown, where he had been for twenty-three years. He was a prominent Wesleyan, and was universally liked and respected.

MAKINS.—The death is reported at the age of 77, of Mr George Hogarth Makins, M.R.C.S., L.S.A., F.I.C., K.C.S., &c., the Master of the Society of Apothecaries. Early in life. Mr Makins was a manufacturer of pure chemicals at Surbiton and he afterwards secured a high reputation as a metallurgist, and was assayer to the Bank of England for ten years np to 1863, also lecturing on metallurgy at the Dental Hospital, Leieseter Souare, up to 1860, in which year he was elected to the Court of Assistants of the Society of Apothecaries. He was elected Master of the Society three years ago.

McCulloch.—On April 23, Charles McCulloch, chemist and druggist, New Cross. Aged 75.

MIDGLEY.—On April 23, J. E. Midgley, chemist and druggist, Liverpool. Aged 49.

PURDUE.—On May 2, Thomas Purdue, chemist and druggist, Witney. Aged 82 years. Mr. Purdue, who was one of the founders of the Pharmaceutical Society, owed his connection with pharmacy to an early taste for the sciences, especially chemistry and minerategy, in both of which he as a young man acquired proficietcy. He ettered business at Excley Heath, in Kent, more than fifty years ago, his diploma from the Society being dated June 1, 1841. After eleven years' residence at Bexiey Heath, Mr. Pordue settled in business at Witney, in the year 1856. At the time the Palmer stryothnic case came on for investigation, the



deceased pharmacist performed some experiments on frogs to ascertain the effects produced by stryonene. Whilst these experiments were being conducted one of the frogs jumped into the strychnine-nath and became tetanic and rigid. It was taken out of the bath and by means of the vapour of chloroform restored to its usual condition. The result was made known and was much appreciated by the medical profession at the time—no such discovery having been heard of previously.

begal Reports.

DISPUTE AS TO A CHEMIST'S BUSINESS.

In the Chancery Division of the High Court on Friday, before Mr. Justice Stirling, coursel were heard on two motions relating to the interests of a mother and son in a chemist's business, carried on at Sowerby Bridge. In the one the plaintiff, Mrs. Cowgill, represented by Mr. Wood, moved for an injurc ion to lestrain the defendant, her son, from acting as or claiming to be a partner in the business. The defendant, on the other hand, who was represented by Mr. Birrell, M.P., moved for the appointment of a receiver.

The evidence, taken on affidavit, having been read,
His Lordship gave judgment. He said that the case was a singular one in its circumstances, and also because of the extraordinary conflict of evidence presented on the affidavits. The parties were mother and son, and the question was whether the plaintiff, the mother, was solely entitled to the business, or whether the defendant was a partner in it. was clear that prior to his death in 1885 another son of the plaintiff, Brian Booth Cowgill, was the active person in the management of the business. The statement of the plaintiff was that from 1869 nntil his death Brian was a partner. The defendant, on the other hand, said that Brian carried on business on his own account without any partner, though he from time to time employed the defendant. After the death of Brian, the plaintiff stated that she employed the defendant to assist in the business at a salary of 12. a week and other allowances, but that she finally dismissed him. It appeared that in the period between 1869 and 1885 the defendant was repeatedly away from the business premises, and was not taking an active part in the management, and sometimes for long periods. In particular, on one occasion, as he himself admitted, he went on a voyage round the world. During all that time there was not a scrap of paper, nor an entry in a book, although books were kept, to show the existence of a partnership. If a partnership were subsisting, one would suppose that, as the business was prosperous, and had been in existence from 1869, profits were being made which would have to be accounted for to the defendant. But there was no evidence of any such accounts, or that when the defendant was absent from the business he got anything from his brother on account of these profits. On the contrary, the letters produced distinctly pointed to the de'endant being in want of money, and instead of claiming a share of profits which he might be entitled to, he was obliged to borrow money from his brother. In the present state of the evidence, therefore, it was difficult for the Court to conclude that prior to 1885, when Brian Cowgill died, that partnership existed. Then as to the position after Brian's death there was a great conflict of evidence. The facts relied on by the detendant were that he acted as a partner, nnder the name of B. B. Cowgill, that he gave orders and received orders, and signed receipts under the name B. B. Cowgill. But to act was proved which appeared to his Lordship absolutely conclusive that he was not, as the plaintiff asserted, simply her servant. In that state of the evidence, the conflict being great, without coming to a final decision as to the real merits of the controversy, his Lordship thought it would be best to make an order which, as far as possible, would keep matters in statu quo. The plaintiff wanted an injunction to restrain her son from acting as and claiming to be a partner, and the defendant wanted a receiver appointed. The plantiff, Mrs. Cowgill, was willing to act as receiver if appointed by the Court. She had already been appointed interim receiver during the peudeucy of the motions, and it seemed to his Lordship, without prejudice to any question, that the best course in the interests of both parties would be to appoint her receiver until the trial of the action, or until further order. At the trial a final conclusion would be come to on the question in regard to which there was so great a conflict of evidence. Jndgment accordingly.

ADULTERATED SAFFRON.

AT the Birmingham Police Court on May 6, Messrs, Canning & Co., chemists, of 36 Great Hampton Street, were

summoned under the Food and Drugs Act for selling adulterated saffron. Thomas Davis, inspector under the Food and Drugs Act, said that he visited the defendants' shop on the 20th nlt., and pnrchased sixpennyworth of saffron, which on analysis was found to contain 70 per cent. of foreign vegetable and mineral matter. Dr. Hill said that the drug was a very expensive one, was used for colouring pastry and confectionery, and was also largely in use as a children's medicine. For the defence it was stated that the drug was sold in the same condition as it was received in, and was only sold in small quantities by the defendants, who had, therefore, sold in small quantities by inductionals, who had, the stock neglected to have the drug tested. The firm was a most respectable one, had been in business for a long time, and had never had a complaint made against them. The Bench said the public must be protected, and fined the defendants 60s. and costs.

A EUCALYPTUS CLAIM,-THE MEANING OF "EX WAREHOUSE.

AT the Bristol County Conrt, on Tuesday, the case of Warren v The Riviera Perfumery Co., remitted from the High. Court, was heard before his Honour Judge Metcalfe, Q.C. The plaintiffs, Messrs. A. & J. Warren, wholesale druggists, Redciff Street, Bristol, claimed damages from the defendant company, trading at Basinghall Street, London.

Mr. H. F. Lawes represented the plaintiffs, and Mr. Wilson

Fox appeared for the defendants.

The statement of claim alleged that on January 21 the defendants agreed to sell and the plaintiffs to buy 160 lbs. of eucalyptus oil; that the defendants neglected to carry out the contract; and that plaintiffs in consequence had suffered damage to the exteut of 28%. Defendants pleaded that they did not agree to sell as stated, that they had not neglected to carry out the contract, that no one had authority to enter into the contract on their behalf; and alternatively it was pleaded that the defendants were at all times ready and willing to deliver the goods.

According to the opening statement of Mr. Lawes, on. January 21, Mr. Voigt, who represented the defendant company, called upon the plaintiffs and offered for sale some eucalyptns oil—described as Eucalyptus Globulus. There was at the time a great demand for eucalyptus oil, as the medical faculty had recommended it against influerza. The representative of the defendants quoted 7s. per lb., which was cheap for that date. The plaintiffs had some of the oil on order from abroad, but could not get it before a certain date. order from acroad, but could not get to before a certain date.

They accordingly asked Mr. Voigt if he was prepared to sell for immediate delivery, and he replied in the affirmative. Thereupon the plaintiffs bought eight tins of 20 lbs. each, and the following memorandum was made of the transaction :-

Bristol, January 21, 1892.

Messrs. Warren, wholesale druggists, Redeliff.

DEAR SIRS,-I hereby offer you eight time of eucalyptus globulus, at 7s per lb. net, ex warehouse, London, in original tins.

Yours truly, for Riviera Perfumery Company,

A. W. VOIGT.

Accepted as above, A. & J. Warren. Plaintiffs requested that two tins should be sent at once by passeuger train from London. The request, however, was not complied with, and the next morning they received a telegram representing that the sale was unacceptable, and that the stock was sold previously. This was followed by another message—"No stock at present. Shall deliver as soon as possible." About 11 A.M. on January 22 Mr. Voigt called, and said he was sorry he was unable to execute the order, as the company had sold out, and had not got the Plaintiffs replied that that was nothing to them; the contract had been made, and they expected it fulfilled. They wrote to the defendant company informing them that their representative had made not a conditional offer, but an absolute sale, and they must hold defendants to it. Thereupon the defendants denied the right of Voigt to enter into such. an arrangement. Counsel said plaintiffs had suffered a mnch greater loss than was represented by the damages claimed, hecause the demand for and the price of the goods increased after the date on which the contract was entered into. On. the 28th the defendants despatched an invoice and tendered 30 lbs. of Eucalyptus Globulus, which the plaintiffs refused to. receive.

In reply to the Judge, Mr. Fox said he should raise no question about the contract and the authority. It was merely a question of the time of the delivery.

Mr. Algernon Warren, of the firm of A. & J. Warren, said that the defendants' representative gave him clearly to understand that the oil was in London ready to be delivered.

Cross-examined: He was certain that "spot delivery" was mentioned in his conversation with Mr. Voigt. He put no time of delivery upon the bought note because, unless otherwise stated, the absence of any specified time meant imme-

diate delivery.

Mr. John Weston, corn merchant, vice-president of the Bristol Chamber of Commerce, said that if the terms "ex warehouse" were used upon a contract, and nothing to the contrary was stated, it meant that the stuff was actually in the warehouse, and that the sellers were prepared to give immediate delivery.

Mr. Henry Charles Owen, colonial broker, Bristol; Mr. Francis Horner, of Horner & Sons, wholesale druggists, London; and Mr. Thomas Pierre Morson, manufacturing chemist, London, gave evidence of a similar character.

This closed the case for the plaintiffs.

Mr. Fox said he should contend, in the first place, that the agent had no right to bind his principals as to time, because he knew that there was a great demand for the drug, and that the defendants were not in a position to forward under such circumstances. If the contract was entered into, and defendants were responsible for it, no time for delivery was ever mentioned. Mr. Voigt never intended that any time should be mentioned, and he (Mr. Fox) said, notwith-standing the evidence given about "ex warehouse," that no time was given. The question was never discussed, and the plaintiff, in his documentary evidence, had not once referred to the fact that, as he had said in cross-examination, the cases were to be delivered that night by passenger train. He would call evidence to show that the defendants never placed the construction upon the term "ex warehouse" which

the plaintiffs placed upon it.

Mr. Voigt, in his evidence, said that when Mr. Warren agreed to purchase the eight tins of Eucalyptus Globulus, he brought witness a bought note to sign. Witness carefully read the bought note through to see if anything was specified as to the time of delivery, and seeing nothing of the kind mentioned, he signed it. Before either of the notes was signed, nothing was mentioned about spot delivery. In accordance with the request of the plaintiffs, he wired to the company to send down two tins by passenger train, the rest to come by goods, and at that time he did not know the amount of stock held by the firm in London. He had no instructions to bind the firm as to time, and he had always carefully avoided doing so. If he had had any idea that a question of time was to enter into the contract, he would never have entered into it. During his thirty years' experience of the trade, he had always understood "ex warehouse" to mean that the goods, when taken from the warehouse, were the real property of the buyers, and all carriage was paid by them from that point up to the delivery of the goods. He had never heard that "ex warehouse" meant immediate delivery, or that it implied that the goods were in the ware-house. When he heard from the principals that the goods could not be at once delivered, he called upon Mr. Warren. and at that time he reminded the plaintiffs that no time was specified.

Cross-examined: Nothing was said about the delivery. He understood that the plaintiffs wanted eucalyptus oil badly, and so telegraphed for the two tins to come by passenger train. The remainder were to follow as soon as they were

able to be delivered.

Mr. Martin Pearls, of the Riviera Perfumery Company, said Mr. Voigt was a traveller for the company upon commission, without the power of binding his principals as to time. On January 21 the firm had only 41 lb. of Eucalyptus Globulus in stock. Afterwards supplies arrived, and they could have completed the contract by March 8. On January 27 the wholesale price of eucalyptus oil was 8s. per 1b.

Cross-examined: On January 20 the company wrote to Mr. Voigt saying that the stock of eucalyptus was very small.

Mr. Wm. Baker said he bought eucalyptus oil in London

on January 21 for 5s. 6d. per lb., and on January 27 for 7s. per lb. This was oil of an inferior quality, and the Globulus was worth another 1s. per lb.

Mr. Fox reviewed the facts of the case, and

His Honour, who said this was practically an undefended case, gave judgment for the plaintiffs for the amount claimed.

THE PHARMACY ACT-THE UNQUALIFIED SELLER.

AT the Glossop County Court, on Saturday May 7, before his Honour Judge Ellison, an action was entered by the Pharmaceutical Society of Great Britain against Stanley Proctor, a youth aged 17, son of Mr. Robert Proctor, chemist and druggis, of Glossop and Hadfield, also against Charles Booth, assistant to Mr. Proctor, for selling drugs containing poison, namely, laudanum, without being qualified according to the Pharmacy Act of 1868. The defendants were represented by Mr. J. W. Tweedale, solicitor, Glossop, and Mr. C. W. L. Flux, London, solicitor to the Society, appeared in support of the actions. Mr. Flux pointed out that proceedings had been taken under section 15 of the Pharmacy Act of 1868. There were two offences against each defendant. The sales took place at the branch shop of Mr. Proctor, at 27 Station Road, Hadfield. From certain reports that were made to the Society, Henry Bradbury was sent to the shop on four different dates to purchase on each occasion two pennyworth of laudanum, and was supplied with the drug on two occasions each by the defendants. These were sealed, and subsequently Mr. Moon, clerk at the head office, proceeded to Hadfield and received the sealed bottles from Bradoury. He had them analysed in due course. Henry Bradbury having given evidence as to the purchase and to handing the sealed bottles to Mr. Moon, Mr. Tweedale appealed for the penalty not to be inflicted, on the ground of infancy with regard to Stanley Proctor, and with reference to Booth that he would lose his situation in consequence of that action.

His Honour remarked that his hands were tied. If Mr. Flux pressed the actions there was no course open to him

but to give judgment accordingly.

Mr. Flux said he did press for the penalty. The Society was established to guard against such sales, and they were placed at considerable expense.

Mr. Tweedale then asked the judge to be as lenient as possible with regard to the mode of payment.

His Honour gave a verdict for the penalty, 5% in each of the four cases, with costs; Proctor to pay the amount at 11. a month, and Booth within a month.

WHAT IS A STILL?

AT the Sunderland Petty Sessions on May 6, an information against the Sunderland Gas Company for keeping a still without a licence was heard before Dr. Potts, Mr. Simey, and Mr. Sanderson, justices. Mr. Alpe conducted the proceedings for the Commissioners of Inland Revenue; Mr. Evans, of Halifax, defended.

Mr. Evans declined to plead, upon the ground that a body corporate could not be made amenable for a penal offence. Mr. Alpe referred to the case of the St. Helen's Tramway Company v. Wood, and cited the Interpretation Act, 1889,

and the case proceeded.

Mr. Alpe said that the Spirit Act, 1880, governed the distillation of spirits and the using and keeping of stills for that purpose. That Act was a re-enactment of statutes contemporaneous with 9 & 10 Vict., c. 90, under which the information was exhibited, and which was entitled "An Act to Prevent the Use of Stills by Unlicensed Persons." The Act required "every person, not being a licensed distiller, rectifier or compounder of spirits, or vinegar-maker, who keeps or uses any still or retort" to take out a ten-shilling licence. He said that section 4 of the Act showed very plainly that licences were required to be taken out by persons who used stills in trade or manufactures, for the reason that the statute enacts that "the Commissioners of Inland Revenue may permit the keeping and using of any still or stills by persons carrying on trade or otherwise for the manufacture of any articles other than spirits or spiritmixtures, upon every person who has a still giving notice thereof to the nearest officers of Excise, and conforming to such regulations as the Commissioners

Revenue think fit to direct before beginning to use such still as aforesaid"; and that persons who had not such a permit must hold a ten-shilling licence. The Sunderland Gas Company had made no application for a permit, and had not taken out a licence. The still was a portion of their sulphate of ammonia plant. The apparatus was designed for the distillation of gas liquor, which contains a large quantity of ammonia and is vaporised in the still by the application of steam. The vapour passes through piping into a saturator, where it meets sulphuric acid, and there the ammoniacal portion of the vapour is arrested by chemical affinity, and combining with the sulphuric acid crystallises and falls to the bottom of the saturator in the form of sulphate of ammonia, when the crystallisation point is reached. Mr. Alpe did not contend that the process could be scientifically called distillation, but he urged that this point was not essential to his case. He had only to show that the company kept a still without a licence.

Mr. Young, Supervisor of Inland Revenue at Sunderland, proved the keeping of the still, and that it was spoken of as, and called, a "still" by the people on the premises.

Mr. John Steele, Superintendent Inspector of Inland Revenue, said that he had had thirty-five years' experience of stills and the distillation of spirits, and that he considered that the plant contained a still. The still was marked "Davis's patent," and was identical with the sectional diagram of a still for which patent No. 16,349 was granted to George Edward Davis, figured in the specification. The specification, after considerable objection from the bench, was put in evidence. It was headed "Improvements in the construction of Ammonia Stills," and stated that the "invention relates to those forms of stills known as column stills," &c. There was no difference in principle between the still used by the company and the well-known Coffey's still, which is used in most of the great distilleries for the distillation of spirits. In cross-examination Mr. Steele said that there was no worm or condenser in the apparatus, but he considered the long pipe for conveying the vapour from the still to the saturator to be equivalent to a worm and condenser.

Mr. Lewin, analyst at the laboratory, Somerset House, said that the apparatus contained a still. The still was the vessel in which vaporisation took place. The upright column is the "still." He would undertake to distil spirits by the apparatus without any alteration of the plant. He knew, as a matter of history, that the distillation of gas liquor was first effected in 1832.

For the defence, Mr. Evans urged that the Inland Revenue authorities were making an unfair attempt to bring under charge plant which had not been previously charged. The company were already compelled by the Board of Trade to pay 2L for a certificate of registration under the Alkali Works Act, 1881, which subjected them to inspection, and he invited the Court to consider that the number of years during which subplate of ammonia plant had been used without interference on the part of the Revenue was a good reason for his clients refusal to pay for a licence. He contended that the still contained in the plant was not a still within the meaning of the Act.

Mr. Ackroyd, Borough Analyst of Halifax, and member of several learned societies, said that the still differed materially from those used in the distillation of spirits. It had no worm, and there was no condensation. The ultimate product was sulphate of ammonia, not a liquid. In cross-examination Mr. Ackroyd said that spirit might be produced from the apparatus as it stood, but he doubted whether it would have any commercial value. He knew Dr. Lunge, of Zurich, by reputation, but not in connection with the distillation of coal-tax, or gas liquor. If Dr. Lunge described the process as "distillation," and the apparatus as a "still,' he was no doubt correct. Questioned as to Feldman's still, Lavelle's still, and others, Mr. Ackroyd said that he knew nothing of them.

The Justices retired for a few minutes, and upon their return the Chairman stated that the summons was dismissed. No grounds for the decision were given, and we understand that the question of law will be carried to the High Court.

TESTS FOR HYDRASTININE HYDROCHLORATE.

THE tests usually given for this alkaloidal salt not being very satisfactory, Dr. Martin Freund has looked into the matter, and in a note to the Pharmaceutische Zeitung criticises the platinic-chloride and potassium-ferrocyanide tests recognised by the German Apotheker-Verein. It is wrong, he states, to say that the latter reagent gives a precipitate in 10-per-cent. solution of hydrastinine hydrochloride, for it is a reddish-brown colour that is produced; but potassium ferricyanide gives a precipitate of reddish-brown needles in a dilute solution. The following are the reliable characters and tests:-Hydrastinine hydrochlorate is a very slightly yellow coloured and intensely bitter crystalline powder, which melts between 205° and 208° C. without decomposition, and heated on platinum foil burns without leaving any residue. In water and alcohol it is readily and completely soluble. The aqueous solution is of a yellow colour, fluorescent and neutral. It is made turbid by ammonia or soda solution. If 0.1 gramme (1½ grain) of hydrastinine hydrochlorate be dissolved in 3 c.c. (50 minims) of water, and 3 drops of this solution mixed with 1 drop of 5-per-cent. platinic chloride solution, a bright yellowish-brown precipitate is formed, which on the addition of 10 drops of water, and warming, is dissolved. On cooling, the double salt crystallises out in golden yellow needles. Three drops of the above-mentioned solution gives with 1 drop of 5-percent. potassium-chromate solution a yellow precipitate in small crystals. On the addition of 10 drops of water, and warming, the precipitate dissolves, yellow crystalline needles separating again on cooling. If to the remainder of the solution 3 drops of soda solution (15 per cent.) are added, a milky-white separation takes place, and on shaking this floats, leaving a clear solution below. The separation is hydrastinine in crystals, and it may be collected, washed, and dried on bibulous paper in the air. So obtained the alkaloid is white, and melts at 116° to 117° C.

Gazette.

PARTNERSHIPS DISSOLVED.

Colns & Cosens, Wellington, Somersetshire, surgeons.

Hopkinson, T., & Forbes, W. T., under the style of T. Hopkinson & Co., Nottingham, wholesale druggists.

Howarth, R. S., & Harlock, E. B., under the style of Howarth & Co. Miles Platting, Manchester, sulphuric acid and chemical manufacturers as far as regards R. S. Howarth.

Noakes & Clark, Nottingham, size and glue manufacturers; as far as regards F. J. Noakes.

Phillips & Barker, Sheffield, analytical and metallurgical chemists.

SCOTCH SEQUESTRATION.

Brodie, J. P., & Son, Inverness, and Brodie, J. P., sen., and B

J. P., jun., as partners and as individuals, wholesale merchants and acrated-water manufacturers, May 14, at 11, Procurators' Rooms Inverness.

THE BANKRUPTCY ACTS, 1883 AND 1890.

RECEIVING ORDER.

Verity, Richard, Seymour Street, Portman Squarc, W., late King's Road's Chelse 1, chemist and druggist.

PSEUDOTROPIN.—Dr. O. Hesse has lately made a critical determination of this coca base, which shows that its formula is $C_uH_{12}NO_{q_1}$

NARCOTICS IN U.S.A.—The New York State Legislature proposes to put down the consumption of opium in any form, occaine, and chloral, by severely restricting their sale. The druggists of the State are protesting vigorously, as the law would in effect prevent the sale of most diarrheea-mixtures and cough-remedies.



Notice to Retail Buyers:—It should be remembered that the quotations in this section are invariably the lowest not can brites actually paid for large quantities in bulk. In many cases allowances have to be added before ordinary prices can be accertained. Frequently goods must be picked and corted to suit the demands of the retail trade, causing much labour and the accumulation of rejections, not all of which are suitable, even for manufacturing purposes.

It should also be recollected that for many articles the range of quality is very wide,

The London Markets.

42 CANNON STREET, E.C., May 11.

The Distressed Drug.

The directors of the Brunswick quinine works announce a dividend of 30 per cont. on the ordinary shares for the year 1891. The capital of the factory is 540,000m., and there is a reserve of 335,000m. The profits last year were 217,277m., of which 55,277m. were divided in bonuses among the staff, and 162,000l. among the shareholders. For 1890 the company paid 40 per cent. dividend. Quinine and occaine salts are not made out of the latter. The Amsterdam quinine works, however, made no profits last year. Dr. de Vry presided at a meeting of shareholders on April 30, where this disagreeable announcement was made. The method of refining of the quinine is blamed for the unsatisfactory result, and Messrs. Böhringer & Sons have been asked to communicate to the Amsterdam people their own processes of alkaloid extraction, an invitation which they have accepted.

ACID (CITRIC).—Very dull and easier, owing, it is said, to the anxiety of certain second-hand buyers, who had bought cheaply, and are now receiving delivery of their goods, to take a profit and sell. Makers quote 1s. 5½d. per lb.; secondhand holders, 1s. 5½d. per lb.

ACID (TARTARIC).—Very dull, at $11\frac{1}{2}d$. for foreign brands. English might be had (second-hand) at $11\frac{3}{2}d$. per lb.

ARECA NUTS.—There has been an arrival of 37 bags from Colombo, per *Bohemia*.

ARROWROOT remains very firm, with sales of 300 barrels St. Vincent at $3\frac{1}{3}d$. to $4\frac{1}{3}d$. per ib. for good medium to good. Bermuda arrowroot was bought in at 1s. 10d, per ib. at auction.

BIOHROMATES.—The manufacturers, English and foreign, of bichromates of potash and soda have held a conference in London, which has resulted in a considerable raising of the price, pot, bichrom. having been advanced from $3\frac{3}{4}d$, to $4\frac{1}{3}d$. per lb. net, and soda bichrom, to $3\frac{3}{4}d$, per lb, net terms. The chief cause of the previous failure of the syndicate to act with satisfaction to the members consisted in the allowing of large and varying discounts on the official quotations. This practice will now be abolished, as all quotations are to be net in future.

BORAX.—The convention of manufacturers has come to an end. Up to the present time no advance in prices has been announced, and it is still possible to buy at 291. secondhand, and at 301. from the makers. It is stated that the conference has led to the admission into the syndicate of certain manufacturers who had kept aloof so far, and that the ring now practically controls the whole of the output of refined borax.

BROMINE SALTS.—There has been no further change in the American and English prices. CAMPHOR (REFINED).—Is firmer in Germany, and the agents generally ask 1s. 5d. per lb. net, although perhaps 1s. $4\frac{3}{4}d$. might still buy.

CINCHONA.—At the auctions to be held next Tuesday a very moderate quantity will be offered. At present 1,517 bales are announced for sale, composed as follows: Ceylon bark, 503; East Indian, 430; West African, 454; Javan, 30; and South American Caliasya, 100 packages. The average percentage of sulphate of quinine in the bark offered for sale in Amsterdam last Thursday was 4.65 per cent. There were 6,818 kilos, of Government Ledger stem chips, averaging 10.17 per cent. These sold at 57 to 61 cents per ½ kilo., or $10\frac{1}{4}$. do $11\frac{1}{4}$. per lb. Druggists' barks were poorly represented at the auctions, and mostly bought in, although a considerable quantity of silvery grey Succirubra quill was afterwards sold by private contract.

COCAINE.—There has been a further arrival of six packages crude cocaine from Callao this week,

COGA-LEAVES.—At last Thursday's cinchona auctions in Amsterdam, 73 packages (4,275 kilos.) Java coca, crusted leaf, were bought in, only 62. per lb. being offered for them. Since then a further consignment of 33 bales has arrived in Amsterdam.

FISH-OILS remain steady, but business is slack. Cod-oil is quoted at 22l., pale Seal-oil at 22l. to 23l., Sperm-oil at 47l. to 48l., and pale Whale-oil at 20l. to 20l. 10s.

GALLS (CHINA).—China galls are offering at 46s, c.i.f. terms, for shipment without finding buyers. At auction 115 cases China and Japan galls were all bought in, the former at 53s, the latter at 50s. per cwt.

GALLS (TURKEY).—The market is stagnant. Our stock is controlled by a few speculators, who have hitherto been able to keep prices up, but, with increased imports, are hardly able to do so any longer. Buyers will not pay the high rates demanded, and quotations, therefore, are quite nominal.

GAMBIER.—The market remains very dull, with sales at 18s. on the spot.

GINGER.—From Caloutta, under date of April 20, a falling market with accumulating supplies is reported. *Cochin* root is again 1s. per cwt. lower, new small washed having sold at auction at 44s. 6d., and medium partly scraped at 47s, per cwt. *Jamaica* of the new crop is also selling at cheaper rates; fine bold at 85s., medium to good medium washed at 55s. to 61s. 6d.; low medium, rather small and dull, at 50s. to 54s. 6d. per cwt.

GUM SANDARACH.—The market is very dull. At auction last Thursday a few packages sold, without reserve, at 59s. 6d. to 61s. for fair palish gum.

GUM TRAGACANTH.—The auctions, for which 1,097 packages are announced for sale, will take place on May 13.

INSECT-FLOWERS.—At present there is no alteration in the price_either here or in Trieste.

LIME-JUICE.—The market is very firm and supplies are small. For rather ordinary thick Jamaica juice 1s. 8d. per gallon has been paid.

OIL (CASTOR).—According to Calcutta advices, dated April 20, the market remains quiet but steady. Fine oil (which is made from Madras seed) is hardly obtainable, as the seed crop in that Presidency has altogether failed.

OLIS (ESSENTIAL).—The reports with regard to the Otto of rose orop are contradictory. Some agents have had no advices whatever with regard to any damage to the bushes, others are in possession of news that much damage has really been done, though seasonable weather may still, to some extent, undo the harm. Menthal is firm at 9s. per 1b. for good white crystals. Our stock is said to be smal, and it is reported that there is little, if anything, on the way at present. American oil of Peppermini (HGH) is offered at 12s. 3d. per 1b.; but Japanese oil is somewhat firmer, 5s. per 1b. being now asked. French and Italian oils are very quiet. It is again reported that the geranium plantations in Réunion have been greatly damaged by storms, and that no turther supplies of oil can be distilled there for at least six months to come. It is also stated that the

cultivation has become so unprofitable that the planters are preparing to abandon it.

OPIUM .- Our market has been fairly active since last week, and a satisfactory amount of business is reported at rather better prices for most kinds except Persian, for which the tone is dull, while holders would be inclined to accept somewhat lower prices. The last business done in this variety was at the rate of 9s. 3d. per lb. for fine opium. The present quotation for fine druggists' is 7s. to 7s. 3d. per lb.; for good seconds, 6s. 6d. to 6s. 9d. per lb.; for soft shipping, 9s. per lb.; and for good Salonica, 10s. per lb. The market in China, which experienced a considerable fall about the beginning of the month, has since partially recovered. A Smyrna correspondent writes, under date of April 30, that the sales of opium on his market during the month of April amounted to about 160 cases of manufacturing opium, one half of which was taken by the American morphia makers. The quotations closed at some decline as compared with the end of March-viz., new Yerli opium, nominal, 7s. 3d. to 7s. 4d.; of March—viz., new Yerli opium, nominal, 7s. 3d. to 7s. 4d.; new Karibissar do., 6s. 10d. to 7s.; new Yerli talequale, 6s. 7d. to 6s. 10d.; new Karahissar do., 6s. 5d. to 6s. 6d.; new Karahissar do., 6s. 5d. to 6s. 6d.; new Karahissar do., 6s. 5d. to 6s. 7d.; new current talequale, 6s. 3d. to 6s. 4d.; old, according to quality, 6s. 5d. to 6s. 6d. per lb., fo.b. It is, he thinks, unlikely that any material change will take place either one way or the other until the result of the coming crop is ascertained. The weather continues favourable for crops in general, but no reliable estimate of the opium out-turn can be arrived at before the end of June, when all the crop in the northern districts has been harvested.

ORRIS ROOT.—The market in Italy is neglectsd, although the actually available supply is reported to be small. Best selected Florentine root has come down to 110s. per cwt.; Verona is offering at 44s. to 62s. 6d. per cwt., according to quality.

Pepper.—Black pepper was in very limited demand at auction, and only a few bags good heavy Tellicherry sold at $3\frac{1}{6}d$, per lb. White pepper, of which a large supply was offered at auction, was exceedingly flat, with small sales of Siam at 5d. per lb, and ordinary dark to fair Singapore at $4\frac{1}{6}d$. to $4\frac{1}{5}d$, per lb.

Phosphorus.—The English makers last week advanced the piice another $\frac{1}{2}d$. per lb. all round, in order to equalise quotations with the continental makers.

PIMENTO is lower, ordinary_dark to fair selling at auction at $2\frac{1}{2}d$. to $2\frac{11}{16}d$. per 1b.

QUICKSILVER.—The market is rather firmer. Importers ask 61.15s. per bottle; second-hand holders are very firm at 61.14s. 6d.

QUININE.—Lower. A sale of 10,000 oz. Brunswick quinine was reported by the agents yesterday at 9d. per oz., but from 6,000 to 8,000 oz. B. & S. and Brunswick in second-hands have also been done at 8½ c. per oz. The Brunswick agent still offers to sell at 9d. per oz.

SHELAC.—The market last week closed with much activity and considerable sales at higher prices. Second orange TN for May delivery sold at 75s., August 76s. September 74s, and October 75s. per c.wt. and on the spot up to 75s was paid for good second orange, 7Ns. to 71s. for AC garnet, and 80s. for first button lac. In the early part of the present week further improvement was shown, and considerable business in all varieties was reported upon the spot and for delivery at improved prices. From Calcutta also a decided advance in price was cabled. At auction only 433 cases were offered, of which about 300 sold at an advance on orange lac of fully 5s. upon the last sale prices, though this shows a slight decline upon the prices which had been paid privately. Button and garnet were 2s. above the previous auctions, or fully up to the highest point touched privately. The following prices were paid:—Second orange, good pale unworked, 74s. to 76s.; curly to fair reddish livery (anworked), 74s. to 76s.; curly to fair reddish livery (anworked), 74s. to 76s.; curly to fair reddish livery (anworked), 74s. to 76s.; curly to fair reddish livery (anworked), 74s. to 76s. per cwt. Good unworked AC garnet, 73s. per cwt.; good first unworked button, 82s. per cwt. Privately the market remains steady, but the amount of business transacted since the auctions has been very small. Orange TN for June, July, and August is quoted at 76s., October at 74s. 6d. per cwt.

STICKLAC is quiet, and may be had at 80s. to 82s. 6d per cwt. for fair Siam.

TURMERIC.—The market is dull. Cochin root in split bulbs realised from 6s. 9d. to 8s. 3d. per cwt. for ordinary to fair quality at auction this week,

Wax (JAPAN).—A falling market, with sellers of good pale squares at 40s. per owt., but very little interest on the part of the trade. At auction, on Tuesday, 50 cases good pale squares were bought in at 43s. per cws. nominally.

Thursday's Market News.

42 CANNON STREET, E.C., May 12.

Our drug and chemical markets are fairly London steady this week, but there have not been any changes of great importance, except in the case of bichromates of potash and soda, which have been considerably advanced, owing to the action of the syndicate. Refined camphor is slightly higher, and there has been a small increase in the price of phosphorus. Cream of tartar is firmer. Citric and tartaric acids are easier, and quinine has had another drop. At to-day's drug auctions a rather steady tone prevailed, and a considerable proportion of the goods offered found buyers. Vanilla was dearer for fine, and very firm for medium and ordinary grades. Rhubarb is higher. Cardamons sold fairly well. For Dragon's blood of fine quality a very high price was paid. Buchu-leaves, gamboge, and gum berzoin are rat er easier; common and damaged jalap is much lower; good qualities bring steady prices. Honey is 2s. to 3s, lower, and beeswax and Japan wax are also easier. Ipecacuanha sold at firm rates at first, but afterwards lower prices were accepted. Crude camphor, menthol, and opium are reported firmer, and for lime juice high rates have been paid. In spices, pimento, Cochin ginger, and Jamaica ginger are lower, nutmegs are firm, and arrowroot somewhat dearer. Zanzibar cloves are lower, white and black pepper flat (black Penang lower), and tapioca also cheaper. Indiarubber has fallen slightly. Nitrate of soda is flat. Quicksilver is firm. Linseed, rape, and cotton-seed oils are quiet. Turpentine is rather dearer, and petroleum is weak. Gambier sold cheaper on the spot to day, but shellac is much higher since last week. The Bank rate remains unaltered at 2 per cent. Bar silver is 3915d. per oz, and the Eastern exchanges are quoted as follows:—Bombay and Calcutta, Is. $3\frac{1}{4}d$.; Hong-Kong, 2s. $9\frac{5}{3}d$.; Shanghai, 3s. $11\frac{1}{3}d$.

Liverpool. Our correspondent informs us that there has been and Quillaia bark. The recent advance in canary seed has been maintained. African ginger remains dull of sale, while Maianham copaiba and Kola nuts keep up well, with a much reduced stock. Sulphate of copper has advanced and is now exceedingly firm. Castor oil remains neglected.

ALOES—Of Curação aloes 171 cases were offered to-day and sold at 55s. for time bright brown in gourds, 35s. to 40s. for good red liver, down to 25s. for rather dark and from 17s. to 11s. per cwt. for common Capey and drossy. Three cases so-called "Curação" aloes from New York, believed to be Socotrines in tins, of fair colour and flavour, sold at 76s. per cwt. Cape aloes are very scarce, and none were offered at auction to-day.

AMBERGRIS.—At to day's auctions 3 tins (20 oz.) of medium quality, dark and gray, rather ordinary flavour, sold at 78s. to 79s. per oz.; very dark and undeveloped at 57s. 6d. per oz., subject to approval. Two small lots, together 6 oz., of fine quality also sold, at 6t. 5s. to 6t. 10s. per oz.

ANISE.—Seven cases genuine but 1ather broken Chinese star-anise, vid Hamburg, were bought in at 105s. per cwt, An offer of 90s. was refused for them. Twenty cases fair seed from Bombay sold at 17s. 6d. per cwt. to-day.

Annatto.—Twenty-seven bags were all sold to-day, rather dull (from Madras), at $3\frac{1}{2}d$. per lb., which shows a firm market, and common at 1a. per lb.

ANTIMONY.—There are buyers of crude Japanese on the spot at 23s.; for arrival nothing is offering at present.

BAEL .- No demand. Eighty bales very wormy dried

fruit from Calcutta were bought in at 3d. per lb. nominally, an offer of $\frac{1}{2}d$. per lb. being refused.

BALSAM (COPAIBA).—Five casks Pará, thin pale to yellow were bought in at 1s. 9d. per lb. to-day. Of 12 tins from Bahia, 3 common red brown colour sold at 1s. 4d. per lb.

BALSAM (PERU).—Tbirty-one cases were bought in at auction to-day at 5s. 3d. per 1b. The owner says that he would take 5s. per 1b., but we do not think he would be able to command that price.

BUCHU.—There was a further decline in price of about $\frac{1}{2}d$. per lb. at to-day's auctions. Of two parcels of 39 bales, 29 sold at $3\frac{1}{2}d$. to 4d. (mostly $3\frac{3}{3}d$. per lb.) for slightly yellowish to good round green, slightly stalky leaves.

CALUMBA.—High prices are still asked, but little demand was shown. To-day, of about 120 bags, nothing sold at auction; fine yellow and washed was bought in at 60s.; and for fair sorts, partly wormy and grey mixed, 35s. was refused.

CAMPHOR (CRUDE).—Prices are reported higher from the East, and Japan camphor for arrival is now quoted at 107s. 6d. to 108s. per owt., c.i.f. terms now; on the spot the price is said to be 117s. 6d. per cwt.

CANNABIS INDICA.—Holders are asking more money. Of 81 robbins offered at to-day's auctions 20 were reported sold before the sales, the remainder, grey to greenish stally tops, very dusty, was bought in at 5d. per 1b.

CARDAMOMS.—Of 126 boxes, about three-fourths sold whotch any appreciable alteration in price. Ceylon Mysore round and long pale at 2s. 4d.; medium to bold yellow, 2s. to 2s. 1d.; small and long ditto, 1s. 6d. to 1s. 7d.; brown and grey split, 1s. 1d. to 1s. 2d.; small to medium long and round mixed, 1s. 3d. to 1s. 4d. Ceylon Malabar: Medium to bold palish, 1s. 11d.; small bown and pale, 1s. 1d. to 1s. 2d.; fair round medium to bold pale Mangalore character, 2s. 1d. to 2s. 2d.; partly split and smaller ditto, 1s. 2d. to 1s. 4d. Seeds realised from 1s. 4d. to 1s. 6d. per 1b.

CASCARA SAGRADA.—Steady. The 40 bags of fair, rather small quality bark, which have been offered once or twice before, sold to-day at 25s. per cwt.

CINCHONA.—Seventy-two packages South American crown bark were mostly sold to-day, Guayaquil in chill dusty brown chips bringing from 8d, to 1s. per 1b., while fair grey silvery Loza was bought in at 1s. per 1b. Another parcel of 36 serons Huanoco in good long brown quills realised 1s. 2d, to 1s. 3d, per 1b.

CIVET.—Two parcels were shown to day and bought in 7s. 6d. per oz. being suggested as the price for fair quality.

COCAINE.—The price is higher. Some business was done in hydrocolorate this week at 18s., but now 18s. 6d. per oz. is asked.

COCA-LEAVES.—Seven bales good stout green and brown mixed Huanoco leaves were bought in at 2s. per lb, to-day, One small bag of small dark leaves from Ceylon was bought in at 1s. 6d, per lb.

COLOGYNTH.—Very neglected. Nineteen cases dark seedy and broken Spanish, all damaged, were bought in at 6d. per lb. to-day. Good pale Turkey apple is held for 1s. per lb.

CROTON-SEED.—Nine bags fairly bright mixed Cochin seed sold at 15s. per cwt. to-day, very common dull ditto at 3s. per cwt.

CUBEBS.—The market is very quiet. Twelve bags from Bombay were offered to-day, and all bought in, small brown berries, free from stalks, at 9l. per cwt.; bluish bold and rather stalky berries at the same price.

CUMIN-SEED.—Malta seed is very dull and neglected, but the nominal price for fine seed of the last crop remains 38s. to 40s. per cwt. At auction 27s. per cwt. was asked for ordinary quality, and 20s. for East Indian.

DRAGON'S-BLOOD.—Four cases very fine saucers, somewhat damp, but of excellent quality, and unusually fine colour, sold at 114. 15s. per own at auction to-day, while low bricky colourless slabs were bought in at 40s per cwt. For 6 cases fair finger in reed an offer of 64. 12s. 6d. per cwt. was refused. Another parcel of 11 cases bold slabs of dull

fracture, partly coated with fine gum, sold "without reserve," very cheaply, at 82s. 6d. to 90s. per cwt. It was recently bought in at 6l. per cwt. Secotrine drop is not in much demand, and at to-day's auctions 9 cases of fair quality were bought in at 95s. per cwt. nominally. Three cases very dusty pickings sold at 76s.

ERGOT OF RYE.—Six bags small to medium fair Spanish ergot sold at 2s, 4d. per lb. to-day.

GAMBOGE.—Is in good supply, and sold to day at rather lower prices, 121, 12s, 6d, to 122, 15s, being paid for good bright, partly ricey, soft and cakey pipe from Singapore, and 81, 17s, 6d, for common bold dull grey Saigon slabs. For 8 cases good bright orange broken pipe, very much run, 132, 10s, was paid, and from 112, 15s, to 122, 15s, for less desirable lo's; bold broken pipe of fair colour, rather dull, sold at 101, 15s.

GUM AMMONIACUM.—For six cases very good pinky to pale losse drop, slightly blocky, a bid of 42s. 6d. per cwt. was refused to-day.

GUM ARABIC.—Fine pale picked Alexandrian gum was bought in at 20t. to-day, but at that price it is not possible to effect sales. There is one holder who asks 19t. 19t. for similar quality, but cannot sell at that rate. Of Cape gum good glassy brown sorts sold at 40t., dark and dusty ditto at 20t. per cwt. For rather dark to fair bold ambery picked Aden from 55t. to 60t. was paid, and 27s. for pale sittings. A parcel of fair ambery Kurrachee was bought in at 70s. per cwt.

GUM BENZOIN.—Of Siam gum only three cases were sold to-day at 101. to 101. 2s. 6d. for fair pale almonds partly small and blocky, and at 80s. for common dark-brown siftings in block. Sumatra gum sold at a decline of from 2s. 6d. to 5s. per cwt.; fine pale almondy seconds, fairly packed, at 8s. 2s. 6d.; small to bold almonds, fair seconds, false packed corners, 6d. to 6d. 2s. 6d ; rather dull seconds and considerably false packed at from 5t. 5s. to 5t. 15s; fair glossy brown. Penany realised 70s, to 71s.

GUM ELEMI.—Six cases good pale Manilla, of fine flavour, were bought in at 48s, per cwt.

GUM KINO.—Scarce and dear. Two cases fair small sold at 70s, per cwt. to-day.

GUM MYRRH.—The market is firm, and the demand remains very strong. Thirty-one packages offered to-day were all sold with good competition—good picked at 5t. 15s. to 6t.; dark brown (Aden) picked, 97s. 6d. to 5t. 2s. 6d.; dusty to good clean medium sittings, 45s. to 65s.; dust at 30s. to 37s. 6d. per cwt. For seven cases fair sorts 77s. 6d. was paid.

GUM OPOPONAX.—Seven tins (131 lbs), the balance of a parcel offered a few months ago, were again placed in sale to-day—this time without reserve. Loose drop of fair flavour and good vellow colour sold at 11s. 6d. per lb. (on the last occasion the owner wanted 40s.), blocky drop and sittings at 4s, to 6s, per lb.

HONEY.—New Jamaica honey was offered plentifully at to-day's sale, and fell in price from 2s. 6d. to 3s. per cwt. as compared with the last auctions, 31s. to 32s. being paid for good liquid clean amber and red, and 26s. to 27s. for dull brown. Chilian also sold at lower rates, 111 barrels being placed to-day at 31s. to 30s. 6d. for fair palish hardy sweet, and 24 to 25s. 6d. per cwt. for yellow and dull. For 33 barrels rather thick and fermented brown boney from Lisbon, 23s. per cwt. was refused. One dark lot sold at 19s. 6d. per cwt. Of so-called Utah honey 50 packages of thick yellow to brown sold cheaply at 20s. to 22s. per cwt. Forty-five cases Eucalyptus boney were bought in at 30s. to 40s. per cwt. to-day.

IPECACUANIA.—Of Rio root 55 serons were offered to-day, of which 35 sold, (partly with fair competition), at an advance of about 1d. per 1b, but subsequently at rather easier prices. Sound and slightly damaged root, good fieshy, brought from 7s. 7d. to 7s. 10d.; medium to lean and wiry sound, 7s. 6d. down to 6s. 11d.; slightly damaged root from 6s. 9d. to 7s. 3d. per 1b. Of Carthagena root 40 bags damaged were shown, but all bought in at 5s. 6d. to 6s. 6d. per 1b., according to quality.

Jalar.—A parcel of 38 bags, forming part of the recent large arrivals, sold to-day at a decline of from 2d, to 3d, per lb. for damaged lots, small to medium Vera Cruz, rather light, realising 1s. 1d. to 1s. 2d., very mouldy and dull from 7\d/d. to 9\d/d. per lb. Another parcel of medium to bold good heavy Vera Cruz, however, sold at the nnaltered price of 1s. 3d. ner lb.

KAMALA.—A bid of $6\frac{3}{4}d$, per lb. was refused to-day, but the market is easy, and 10d., at which the drug was recently held, is no longer obtainable.

KOLA NUTS.—Fair dried brown West Indian kolas sold at 3d. per 1b. Holders are firm. To-day they refused 3d. per 1b. for good West African dried chips. Another parcel of 21 packages, also African, was partly sold at 5d. to 3d. for good brown chips and 3d. per 1b. for medium.

LIME JUICE.—At to-day's auctions 10 puncheons good clean yellow Jamaica were bought in at 1s. 9d. per gallon.

Musk.—The only parcel sold to-day consisted of two caddies dry and well-trimmed but very false-packed third-pile Tonquin pods, which brought from 23s, to 30s. per oz.; for first-pile pods, small to bold blue skin, rather broken, well trimmed, 68s, 6d.; and for ditto old-fashioned slightly damp blue skin and nnderskin, 57s. 6d. per oz. was refused; for ordinary old-fashioned, with thick skin and rather damp, offers from 47s, to 50s, per oz. were also declined.

NUX VOMICA.—Unchanged and steady. Forty bags fair grey small to medium seeds from Bombay sold at 8s. 9d., small and dark ditto at 7s. per cwt.; and for 15 bags fine bold pale, partly greenish mixed silky seeds from Bombay, 12s. 6d. was paid.

OIIS (ESSENTIAL).—Twenty cases Eucalyptus oil of five tins each, Kangaroo brand, Australian, were bought in at 2s. 7d. to-day. For twenty-one cases Unnamon leaf oil, each of 36 bottles, there was no bid at 1½d. per oz. Turkish Geranium oil is limited at 10d. per oz. It is said that the crop in Algeria is expected to be a very good one this year; it will be gathered about the end of this month. Four cases pale dava Nutmeg oil sold at 3½d. per oz. to-day, a decline of about ½d. per oz. on the previous valne. For a case of Fischer's Kananga oil a bid of 2s. 7d. per oz. was refused, while 17s 6d. per oz. is believed to have been declined for 12 bottles of fair Ylang-ylang. Three tanks brown Citronella sold cheaply at 9d. per 1b.

ORANGE-PEEL.—For 2 packages fine bright narrow-strips from Bombay, 1s. per lb. was refused, 1s. 2d. being the price.

ORBIS.—At to-day's anctions 30 bags Italian were partly sold "without reserve" at 67s. per cwt. for bold but yellow Verona. Good pale picked Florentine was bought in at 120s. per cwt.

Quassia.—For 33 bags fine slightly yellow chips, London made, 12s. per cwt. was made, and for $11\frac{1}{2}$ tons from St. Kitts from 80s. to 82s. 6d. per ton.

QUILLAIA.—There has just been another heavy arrival from Valparaiso. At to-day's drug sale 52 bales sold at a considerable decline: Fair quality, at 194 to 194 10s.; loose and damaged at 151. 10s. to 164. per ton.

QUININE.—At to-day's sales 10,000 oz. bulk quinine (B. & S. and Brunswick) were offered; a bid of $8\frac{1}{2}d$, for the former and one of $8\frac{3}{4}d$, for the latter was refused.

RHUBARD.—The London stock is now very small, and the article is in an exceedingly favourable position, especially as regards High dried, of which not 20 cases are said to be in our warehouses. At to-day's auctions prices advanced from 1d. to 2d. per 1b. in some instances, and of 32 cases 18 sold at 2s. 10d. for fair even-coated round druggists' root; 2s. for Shensi small to medium fair orange-coat, three fourths pinky, one-fourth dark, round; 1s. 10d. for ditto fair coat, small, round, even, pinky-grey fracture, rather rough; 1s. 8d. for small to medium, fair pale coat, three-fourths pinky, one-fourth grey, rather spougy, round; 1s. 5d. for small fair coat, partly rough, three-fourths dark and grey, flat; and 1s. 2d. to 1s. 3d. for medium to bold dull, horny coated, three-fourths dull grey and one-fourth dark fracture.

SARSAPARILLA.—Nineteen bales good grey Jamaica root sold at full prices to-day, is, 6d. being paid for sound, and 1s. 3d. to 1s. 5d. per lb. for damaged root. A parcel of dull pale native Jamaica sold at 12d. to 12\frac{1}{2}d. per lb. to-day, and for 10 bales damaged Lima Jamaica from 9\frac{1}{2}d. to 11\frac{1}{2}d. per lb. was paid.

SENEGA.—At anction to day 6 bales were bought in at 1s. 8d. per lb.

SENNA.—Timmevelly is firmly held, and of 200 bales offered to-day, mostly owned by second-hand holders, only a small proportion sold, at 3\frac{1}{2}d. to 4d. for fair medium greenish but specky, 2d. to 2\frac{1}{2}d. for small to medium yellowish, and down to \frac{1}{2}d. for very common.

Sox.—Fifty-nine casks of China soy were offered to-day without reserve, and sold at a considerable reduction in price—viz., 12d. to $13\frac{3}{4}d$. per gallon, probably the lowest figures on record.

TURMERC.—The market is dull, and much lower, except for Madras of fine quality, of which 21 bales good bright finger sold to-day at 30x. 6\(\delta\) to 31s, per cwt. Bengal is not worth more than 18x to 18x. 6\(\delta\), and \(China\) root, according to quality, is quoted at 17x. 6\(\delta\), to 22x. 6\(\delta\), per cwt.

VANILLA.—At to-day's auctions 304 tins were offered nearly all of which sold with a good demand at an advance of 6d, to 1s. per 1b. for fine quality, and firm rates for fair to good brown beans. There was a parcel of 9 tins Mexican vanilla from Vera Cruz—the first direct import of this kind which has been received in our market for several years; the quality is good, and for beans from 7 to 8 inches long 20s. per 1b. is required, an offer of 14s. being declined to-day.

WAX (BEES')—Jamaica was barely firm, and in some cases slightly cheaper; other varieties showed a distinct decline to-day. The following prices were realised:—Jamaica, fine even red and orange, 71. 2s. 6d. to 71. 7s. 6d.; brown and red ditto, 6t. 15s. to 7t.; Australiam, good mixed colons, 6t. 17s. 6d. to 7t. 5s.; Zanzibar good even orange, 5t. 10s.; Madagascar fair chocolate to good pale bright, 5t. 5s. to 6t. 2s. 6d.; and orange Mogadore, 65s. per ow.

THE LIVERPOOL MARKET.

Balsam Copaiba.—Stocks are much reduced, and holders now ask 1s. $8\frac{1}{2}d$. for cloudy *Maranham*, and 1s. 9d. for bright.

CALABAR BEANS.—Sales of good at $2\frac{1}{2}d$. 2d. was bid at auction, but refused.

CANARY-SEED—The market during the week has been characterised by a steady and well-sustained advance. Large parcels have changed hands, and 50s. has been paid freely. 52s. 62. is now talked of, as stocks in Smyrna are said to be very small.

CASCARILLA.—Thirteen bales small broken and dusty were offered, but did not find a buyer at anction.

CHILLIES.—Sierra Leones have been somewhat easier, and 40s. has been accepted for fine reds.

CREAM OF TARTAR is slightly firmer, and holders are asking 90s. for first white crystal. Prices forward are higher.

FENUGREEK SEED.—A parcel of ordinary brown Egyptian has been sold at $8s.\ 6d.$

GINGER is neglected, and the parcels just landed do not find buyers at 27s. 6d., below which holders refuse to go.

GUINEA-GRAINS.—Fifty bags common dull and dusty sold at 24s. for shipment.

THE SMYRNA OPIUM MARKET. (Telegram from Our Correspondent.)

SMYRNA, Wednesday night. FURTHER sales of 100 cases manufacturing opium, mostly for America, have taken place this week, at prices ranging from 6s. 3d. to 6s. 7d. per lb., f.o.b. Smyrna, according to quality.



Memoranda for Correspondents.

Always send your proper name and address: we do not publish them unless you wish: if you do not, please use a distinctive nom-de-plume.

Write on one side of the paper only; and devote a separate piece of paper to each query if you ask more than one, or if you are writing about other matters at the same time.

If you send us newspapers, please mark what you wish us to read.

Ask us anything of pharmaceutical interest: we shall do our best to reply.

Before writing for formulæ consult the last volume, if you have it.

Letters, queries &c., will be attended to in the order received.

The Patent-medicine Stamp.

SIR.—If a majority of the trade express a desire for the abolition of the Patent-medicine Stamp Act, there will probably not be much difficulty in the way. When the stamp authorities in the United States became aggressive and demanded that stamps should be affixed contrary to previous custom, they "magnified their office" till it blew up and their occupation was gone.

English chemists are more patient, being content to pay away a good share of their profits in stamps. Any retailer could as easily get 2s. 9d. for his mixture without a stamp as

with it.

It is a drain on the public and the chemist, and exists for the sole benefit of three classes:—

1. The officials at Somerset House.

2. The spies who, I hear, get rich on their share of the fines imposed on chemists.

 Receivers of "unearned increment," whose wealth arises solely through indirect taxation and the exemption of publicly-created land values.

If the trade are so fond of the first and second classes of gentry as to wish to perpetuate to them an easy job, big pay, and no risk, and of the third as to desire to heap wealth upon a class who already suffer from a surfeit, by all means resist the abolition of the Act, or go in for a double tax.

But any who think that it is a bad time to put an extra tax on a man when he is sick, a wrong thing to put at ax on chemists which other tradesmen do not have to bear, and a danger to the community that poisons should be supplied by drapers and grocers when under the seal of the stamp, will go in thoroughly for the abolition of an antiquated tax (which is tolerated in no other country in the world), and clear it out as soon as it is brought before the next Parliament.

Personally, the abolition of the Stamp Act is a matter of indifference to me, as the goods I make are not liable. I will, however, be happy to co-operate or assist in any way if a large number of chemists wish this tax abolished. I am pretty sure there will be no difficulty if it is tackled in the right manner.

Yours truly,

Milan, April 27. S. M. BURROUGHS.

"The Chemist and Druggist" as a Court of Appeal.

SIR,—In reference to the recent action of the Pharmaceutical Society of Ireland against my late partner, Mr. C. P.
Beater, in our general business as chemists and druggists,
I think it is only due to him and to the public to state the
facts of the case, which are these. For the last sixteen years,
or since January, 1876, I have been the sole working partner
in the business, first carried on as Beater & Co., and subsequently as Hoyte & Son, Mr. Beater's capital being in it, but
otherwise he had nothing to do with the management of the
business, being by profession an architect, and fully
engaged with his duties.

I obtained my qualification in January, 1883, and since that time conducted the compounding solely in my own name, and under the charge of a qualified chemist, and in order to put my position beyord a question, rented the dispensing depart-

ment at an annual rent. It was, therefore, a matter of surprise to me to learn that the Society contemplated taking action against Mr. Beater under the circumstances I have stated, considering that at the time of the passing of the Act, and subsequently, various members of the Council had unqualified partners, including Mr. Hayes himself, and that up to January, 1891, as I understand, the father of Mr. Wells was in a similar position as Mr. Beater, only that Mr. Wells, senior, was actively engaged in the general business, whereas Mr. Beater has always been a sleeping partner. Mr. Wellswas also aware that a dissolution of partnership had been spoken of, notices to that effect having been printed: this made the action of the Council the more invidions. And had I wished to be litigious, it is quite an open question whether the Society would have been successful against Mr. Beater, as on a previous occasion the Solicitor-General decided in my favour in the question of an apprentice's certificate; but for peace sake, and to avoid publicity, I consented on the part of Mr. Beater to pay a fine of five pounds-not ten, as stated.

In conclusion, I beg to say it would have been more courteous and consistent if the Society had sent Mr. Beater such an official intimation of any alleged infraction of the law as I perceive was done in the case of Mr. Selkirk and Mr.

Boyd. I am, yours faithfully,

Dublin, May 7.

JAMES N. HARDY, L.P.S I. Sole Proprietor Hoyte & Son.

The Veterinary Chemist Defence Fund.

Sin.—As one of the subscribers to the above fund I beg to thank you most heartily, not only for the very handsome way in which you headed the subscription-list, but also for the prompt and effective manner in which you tackled the opposite party. There is not the slightest doubt that had it not been for your straightforward action in this matter, we should have been "got at" piecemeal, with the result directly opposite to what you have attained. This is another example of the old adage that "union is strength," and should be a lesson to some of our faltering brethren. I now write to propose that the amount promised should be paid into a sort of reserve fund, in case it is needed. Many of us may be able to add to it from time to time, until sufficient is collected to contest the case, should our opponents try it on; but this is very doubtful, and we shall continue, as we have done for years, to use the adjective "veterinary," until they have established their exclusive right in a court of law.

B. (25/40.)

[We are obliged for the above kin1 remarks; but we do not think it would be advisable to pay over the cash until there is an actual necessity for it. If the question has to befought much more will be wanted, and we hope a good many other subscribers will then come in.]

A Postal Feat.

SRR.—On March 15 a London house posted a price-list tome inadvertently addressed Grimsbury, Bombay; to-day it was duly delivered to me at my proper address, Grimsbury, Bambury, and in no way the worse for its lengthened journey and most unusual route of over 14,000 miles from London to the "town o' cakes," and at a cost of one halfpenny, taking just seven weeks, and averaging 2,000 miles a week. In these days of grumbling at some departments of Her Majesty's Government, I think the above reflects great creditupon all officials concerned, both English and Anglo-Indian.

Yours faithfully,
Banbury, May 3,
A. H. HINDE, A.P.S.

A Still Suggestion Wanted.

SIR,—Will some of your experienced correspondents kindly say what is the most approved and "up to date" form of still for the recovery of spirit from tinctures and other preparations.

The still in contemplation should be capable of containing from 10 to 15 gallons of the liquid to be distilled, should be

made of copper, and be heated by steam. Any suggestion on the part of your readers will be thankfully appreciated by Yours faithfully.

May 10. "THUS." (29/73.)

Consuls and British Trade.

SIR,—I have read your comments upon the proposal made by a correspondent of the *Times* (Sir Edgar Vincent) that consuls abroad should receive a commission on imports of British goods under their respective consulships and substitute these commissions in lieu of one-half or one-third of their present salaries.

This might stimulate the zeal of some, but I am writing to assure you that every consuland ambassador I have happened to meet with in my travels has manifested the liveliest interest in promoting British trade. The American representatives are also similarly disposed to help American trade. While on my present journey, made chiefly for the purpose of visiting our agents in Italy, France, Spain, and North Africa, and for arranging for an extension of our trade with these countries. I have always met with the greatest courtesy and have received valuable information from all ambassadors and consuls, among whom it is due that I should specially mention Lord Dufferin and the American Consul-General in Rome, the English Consuls in Venice, Palermo, Florence, and Barcelons, the American Consul in Naples, Mr. Hoare, the British Consul in Trieste; General Grubb, the American Minister in Madrid, the British and American Consuls in Seville, Cadiz, Cordova, Grenada, Tangier, Oran, Algiers, and Marseilles. None of these, or any other consuls I have met with, need any stimulus in the way of commissions to encourage their desire to promote trade relations.

My firm being both English and American I have received

My firm being both English and American I have received the best consideration of the representatives of both countries. If the consols lack anything it is opportunity, for it is so seldom that any principals or travellers of English houses visit these countries, and it is only such who can intelligently conduct negotiations in these times of sharp competition and

trade specialism.

British diplomatic ambassadors have their hands quite full enough in promoting international peace and the general principles of free trade in these days, when persons who make a profit in protection at the cost of their neighbours are so busy in talking up the advantages of tariffs. Such persons certainly have all the advantages on their side if not the sound arguments.

A consul who has not had special experience in any particular line of trade cannot be expected to attend to it as well as one who comes out representing a business which he thoroughly understands. Besides this, consuls have to remain in their offices during business hours to attend to their regular work. When we consider the great amount of time spent in arranging the details of any large business, though it may consist of but one or two specialities, we see how unreasonable it would be to expect consuls to attend to the business of every wholesale or manufacturing firm of the country he represents, which can only be done properly in person by the principals or representatives of the houses who wish to establish or extend a foreign trade.

I was much surprised to be told by léading bouses in the drug trade along North Africa, and in some parts of Italy and Spain, that they had never before seen anyone connected with the drug trade of England or America in those parts. The English trade jounals do a great deal of good, and in places have been the means of introducing new lines and houses, but such personal attention by travelling as is given by German houses to their business in countries bordering on the Mediterranean is essential to the building-up of an extensive trade.

If any consuls would prefer to have a commission from the Government in lieu of part of their salary, as suggested, I think it should be given them; but I believe consuls generally are already doing their best to promote trade interests. Yours truly.

terests. Yours truly,
Berlin, May 3. S. M. BURROUGHS.

P.S.—I should think a great deal of good might be accomplished if the British Government would supply to consuls for distribution literature advocating free trade, selections from the speeches of the great free traders Cobden, Bright,

and others, or copies of Henry George's "Protection or Free Trade," which is doing much good to the free-trade cause in the United States.

DISPENSING NOTES.

The opinions of practical readers are invited on subjects discussed under this heading.

Terebene Mixture.

SIR,—What reaction occurs in the following mixture causing it to change from white to dark blue?

Terebene	••					3ij.
Pulv. tragac. co.	••	••	••			3j.
Syr. simp	••	••	••	••	••	₹iv.
Potass. iodid.	••	••	••	••	••	Эi

It was tried with pulv. tragac, fer., 10 grains, thinking that it might be caused by some iodine liberated from the iodide of potassium producing "iodide of starch" by contact with the compound powder, but this unfortunately gave the same result. The opinion of your readers would oblige.

April 27. Yours truly,
D. S. DAVIES.

Readings of the Indian Prescription.

Mr. Arnyer,-					
Mist. camph.	 				živ.
Tr. card. co.	 	• • .			3ss.
Spt. ammon.	 		••		3ss.
Tr. camph. co.	 			••	5ss.
Vin. ipecac.	 				m 20.

Brighton, April 30. C. S. ASHTON.

	 	••		živ.
Pot. nit	 		••	gr. xv.
Glycerini	 			3ss.
Tr. camph. co	 ••	••	••	3ss.
Vin. ipecae	 			m 20.

112 St. George's Road, Southwark, S.E.

Mist. camph.				••		giv.
Pot. carb.	••				••	gr. v.
Spt. am.	••	••	••			388.
Tr. camph. ce	э.	••		••	••	3ss.
Vin. ipecac.			••	**		m 20.

Vin. ipecac. .. Can't decipher first line.

F. W. (25/70.)

ARTHUR AKAM.

н	ora somni.						
	Mist. camph.	••		 ••	••	Zij.	
	P. Doveri			 ••		gr. iv.	
	Spi. ammon.			 	••	3 ss.	
	Tr. camph. co			 		3ss.	
	Vin. ipecac.	••	••	 		m 20.	

Yours, &c., CEPHAELIS. (29/41.)

May 5. The correct rendering is:-

correct rendering	18;-	•			
Mist. camph		••		**	Fiv.
Pot. nit				••	gr. x⊽.
Sp. am. ar	••	••	••	••	5ss.
Tr. camph. co		••	••	••	58s.
Vin income					m 20.

The first line is the name of the patient.—ED. C. & D.

A Quinine Mixture.

43/10. Ekroce has had the following to dispense:-

Ferri et quininæ cit.			 gr. xlviij.
Sodii bicarb			
Sodii et potass, tart.	••	••	 Ziij.
An. ad			 ₹vj.

He dissolved the citrate in 1 oz. of water, the soda salts in boiling water, and mixed. The mixture was clear while hot, but deposited on cooling.

[We may note that bicarbonates should never be dissolved in boiling water. That is how to reduce them to carbonates. Quinine is precipitated by all alkalies, and Rochelle salt precipitates it as well as cinchonidine. It is impossible, therefore, to have a permanently clear mixture from the above. When will such ignorantly conceived prescriptions vanish ?—ED. C. & D.]

LEGAL QUERIES.

Consult Alpe's "Handy-book of Medicine-stamp Duty" in regard to patent medicine questions.

General information regarding the laws affecting chemists and druggists is printed in THE CHEMISIS' AND DRUGGISTS' DIARY, 1892, pp. 161-5.

For stamp duties, licences, Customs regulations, &c., see the DIARY pp. 151-9.

- 40/25. Pulmonic.—If you describe a compound medicine on the label as "a certain cure" for any human complaint, that circumstance by itself renders the preparation liable to medicine-stamp duty.
- 25.2. Enguirer.—"I's convert your businesses into a limited company you had better consult a book on joint-stock companies, now published by Wilson, Royal Exchange, at 16.62. The registration fee on a capital of 1,0002. is 21., and the stamp duty 11. The notification to people you deal with is the word "Limited," which you must append to every use of your company tile.
- 28/32. Weed-killer.—It is quite legal for an unregistered person to transfer orders for arsenical weed-killer to you, but this must be a bonā-fide transaction. It is you, not he, who must supply the stuff.
- 25]6. Figure asks if a chemist having a "Gilbey's" licence to sell spirits, &c., can open on Sundays. Is such a licence a six or seven days licence?—[Under the Licensing Acts, six-day licences are only granted for the sale of intoxicating diquors to be consumed on the premises—not off. The holder of a retail licence is subject to "closing hours." The chemist's business may be carried on during closing hours if the part of the shop used for the sale of liquors is closed, or the case in which the liquors are kept is shut up and locked. It is as well to bear in mind that the sale of intoxicating diquors on Sunday would probably cause opposition to the renewal of your justices licence.]
- 19/33. Nemo asks if a "chloroform hair-stimulant" put up by anunqualified person is liable [to medicine-stamp duty, we presume is meant]. The preparation described would not be liable to stamp-duty, whether the person who put it up is qualified or not. If the preparation contains an appreciable quantity of chloroform it seems that the seller must be a qualified chemist, and must comply with the regulations for the sale of poisons.
- 27/69. Cortex.—The Treasury have seemed to carefully avoid raising any question which would bring one of these proprietary medicines within the first part of the schedule. It would be possible to argue that morphia, as a "poisonous vegetable alkaloid," brings a medicine within Part I, but such an interference with trade would be very objectionable, and it is not for chemists to initiate it.
- 27/5. Phenol.—In our opinion the sample of sugar you sent is not Demerara. If you can prove that you expressly bought it as such, and can satisfy a Court that the article is not what it was sold as, you have a clear claim for compensation. The wholesale dealer's defence that he himself bought it (under the description of what he sold it to you for will not avail him. As to the exact course to take, and

the evidence that would be required, you had better consult a lawyer.

- 26/58. Drugdent.—There is certainly nothing to prevent the same person practising both as a chemist and as a dentist at the same time, if his name is on both registers. We cannot discover any legal reason why such a person should not give the necessary certificate of pupilage to a youth who had been with him for three years after his Preliminary examination, for both dental and pharmaceutical boards of examiners. The master must be able to say in each case that the pupil has been practising the art indicated. You had better ask the Registrar of each board if any objection to the course you have indicated would be raised.
- 28/71. J. E. B.—An unregistered person has no right to style himself either wholesale druggist, manufacturing chemist, or analytical chemist. But if he is brain fide either such a one, it is not the practice of the Pharmaceutical Council to interfere. Any misleading use of either title, would, however, very properly lead to a penalty.

Tabella.—In reference to a reply inserted in this column last week as to this title, Messrs, Hockin, Wilson & Co. write to say that they have used the word for their make of tablets for nearly four years.

29/70. Radix.—You can use a trade-mark without registering it, and you may call it "trade-mark," but not "registered." Of course, if in doing so you infringe anyone else's registered mark, you render yourself liable to an action; and if the mark be a registrable one you cannot maintain an action on it until you have registered it.

30/35. X. Y. Z.—The expression "Not Pharmacopocia strength" on a sciolitz-power label would probably be a good defence in the event of a prosecution; but to be quite safe you must draw the attention of the purchaser to the fact before the purchase is completed.

MISCELLANEOUS INQUIRIE?.

Inquirers will please read the "Memoranda for Correspondents."

A list of "Books for Chemists" is given in The Chemists' AND DRUGGISTS' DIARY, p. 317.

For all particulars regarding Educational and Examinational matters refer to our issue of September 19, 1891.

Replies to queries are inserted according to the space open in any week, and insertion on any specific date cannot be guaranteed.

Back numbers of our weekly issue, containing formulæ, &c., occasionally referred to in answers, can be obtained from the Publisher at 4d. each.

- 20/32. Dr. Herschell's manual on "Dyspepsia," was reviewed in this journal on January 16, 1392. It is published by Baillière & Co. at 3s. 6d.
- 23/47. A. B.—The best thing for threadworms, if santonin has failed, is a mixture of liquor ferri perchler, \(\frac{7}{58}\)\, \(\frac{7}{58}\)\, inf. quassize to \(\frac{7}{3}\)\. Half a wineglassful of this to be injected into the bowel every morning.
- 23/49. Medicus.—From 2s. to 5s. per hour is the fee which medical students generally pay for private coaching. You should require at least five guineas for the two months' instruction.
- 24/16. Nork.—As we feared, it is impossible to entirely remove the permanent hardness with the softener. See Messrs. Archbutt and Deely's paper in THE CHEMIST AND DRUGGIST, May 9, 1891, page 651.

23/55. Complexion.—Benzoin Lotion for the face and hands.—This may be composed as follows:—

Mix the glycerine with the rose-water, and pour the tincture into it in a thin stream through a paper funnel. Give one shake,

23/58. Black Oil.—See page 324 of the current volume. Madder is an astringent, and acts as such on cattle.

23/60. Parrish.—See our issue of February 28, 1891, p. 322, for a good working formula for Parrish's syrup.

23/63. Jean.—You can remove the colour from tincture of tonka bean by filtration through animal charcoal. Preferably by distillation.

24/40. A. E. B .- We would filter the mixture.

16/40. W. R. H.—Beard on "Nervous Diseases" (Sampson Low, 9s.).

21/56. J. O. W.—The British Pharmacopoeia is published by Messrs. Spottiswoode & Co. at 6s, and the Additions at 1s. Such books can be supplied from this office, carriage free, if desired, by remitting the publishers' price.

20/62. X. Y.—Pilocarpine is useless as a Hair-dye, Someone who took pilocarpine as a medicine happened to get a fine crop of new dark hair after it, where formerly a thin and greyish covering flourished. Upon this the reputation of pilocarpine is based. We recently examined a popular preparation, which we found to contain pilocarpine, the composition being as set forth in our issue of March 13, page 431. By hyposulphite wash we presume that you mean the one with lead as a basis, hyposulphirous acid of itself not being a dye. To make the wash dissolve 2 drachms of lead acctate in 3 ox. of water, and add to it a solution of sodium hyposulphite (1 in 3) until the precipitate formed is redissolved. Make up to 8 oz. with perfumed water, and filter through asbestos. This is to be used like the common sulphur hair-restorer.

20/39. Poroplastic.—Mechanics is no longer required of medical students. See the last Educational number. The preliminary R.C.S.I. certificate is recognised in England by the General Medical Council as well as in Ireland.

23/2. Label.-Varnish with a thin resin varnish.

27/14. A. H.—The quantity of hydroquinone for formula A, page 671, is 1 gramme. This is given in all our copies.

26/28. Ethusa Opnapium.—(1) Communicate with Messrs. Wills & Wootton or Messrs. Evans, Sons & Co. regarding mounted plants. (2) Directions for mounting have frequently been printed in this journal, but for very full particulars you may consult Oliver's "Elementary Botany" (Macmillan, 4s. 6a.) or Holmes's "Botanical Note-Book" (T. Christy & Co., 3s. 6a.)

25/4. Touth cement.—(1) We printed a good formula in our issue of August 23, 1891, p. 343. (2) We have no formula for a liquid depilatory. See September 12, 1891, p. 422.

25/37. Liquidus .- See the DIARY Book-list, p. 323.

40/25. W. O. S.—In addition to the formula for Glycerine and Cucumber in the number which we have sent you, the following may be quoted as a new style (Lait de Concombre), which is recommended in Germany:—

Transfer to a bottle, shake, and add the following :-

 Aq. coloniensis
 5j.

 Spt. sether. nitrosi
 5j.

 Spt. camphore
 5j.

 Tr. benzoin, simp.
 5ss.

 Mr. well
 5ss.

It will be observed that this preparation contains noglycerine.

28/21. H.C.—Your Pharmacopcia is a copy of the third London Pharmacopcia, compiled by the Royal College of Physicians. The frontispiece and title-page are wanting. It was published in 1682, and there were two earlier imprints of the same Pharmacopcia—vix, 1677 and 1678. The first Pharmacopcia was published in 1618. It is interesting to note that "Joannes Atfeld" has a place amongst those who were responsible for the production of your Pharmacopcia, and that at the present date, 1892, a John Attfeld is the editor of our national Pharmacopcia—another proof of the doctrine of heredity, we suppose. Other names in the preface are found in the front rank of present-day medicine and surgery or pharmacy. There are two "Clarks" (Henricus and Josias), for the one (Sir Andrew Clark) now President of the College; a Frasier, a Paget, a Wolfe, a Frankland, a Gviliemys Warner, a Carter, &c. The value of your copy is considerably discounted by the want of the title-page, and the cut edges; but it is difficult to name any price for such books. Put any value you like upon it and keep it. We are unable to trace the written names.

29/46. Indipaction.—See page 499, April 2 issue, for a formla for pepsine wine. The preparation, you will notice, is non-fxciseable, and in our opinion by far too acid. You can obtain a very good wine sufficiently strong peptically, by using half the quantity of pepsine, 5iss. of dilute hydrochloric acid, and the other ingredients as stated in Mr. Clark's formula.

24/22. Laboratory.—The astringency of sherry dependsupon the amount of tannin which it contains, and that is derived from the cask. You can judge from that the value of the wine as an astringent.

25/70. F. W.—Two ounces is the quantity in the original formula. Do you find that excessively strong ?

25/45. Gallus.—Coal-tar dyes, we understand, but which we are unable to say.

23/36. L. & C. (Darjeeling).—The information you give is too meagre. The substance looks more like a dung than anything else.

24/59. Dens.—There is an article entitled "Dentistry for Druggists" in The CHEMISTS AND DRUGGISTS DIARY, 1890, which gives just that kind of information which you destre. Perhaps you could get a copy of this through our Exchange Column, if you have not one. If you can conveniently attend a dental hospital you should do so. You are not entitled to call yourself a dentist or any other title which implies that you are qualified under the Dentists Act, but that Act does not prevent you from performing dental operations.

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Mono Carbonate of	Soda	91010	400	9940	0.00	1,00
Sulphate of Soda	000	***	970	01040	***	trace
Chloride of Sodium	6000	-	944	994	-	'035
Moisture	***	emmo	600	60000	600	·8 2
Insoluble	004		904	•••	004	nil

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L. C. C.

Disease	Doctor	City
Infantile Debility Enteric Fever Gastric Catarrh and Portal Congestion Hemophilia and Bronchitis Bright's Disease and Gastritis Influenza Prostration Fever Diarrhoea.	Craven, J. P Dodd, J Wigglesworth, V. Jardiner, J. L Walshe - Davidson Sykes, J Russell, A Powell, G Allen, M. S	Thurso Prestwich Southport Capel Aspull Wigan Dewsbury Harrogate Dublin Dudley

- *I. CHILD INANITION (MARASMUS).—No food for eight days; sinking; recovered in three days, sitting up at the table and eating lice pudding.
- SEVERAL CASES OF QUINSY, with great difficulty in swallowing. Strength kept up by Liquor Carnis (concentrated nourishment).
- CASE OF APOPLEXY, complicated with bronchitis. Could not swallow the smallest quantity of nourishment. Kept alive on Liquor Carnis for several days; complete recovery; no paralysis.
- 4. CASE OF STRANGULATION OF THE BOWELS.—Severe vomiting, Iced champagne and everything rejected with the exception of Liquor Carnis. Patient alive and improving.
- 5. CASE OF SENILE DEBILITY .- Recovery with Liquor Carnis.
- 6. CASE OF INCIPIENT PHTKISIS.—Has been taking Liquor Carnis for weeks; likes it, and finds it gives relief to the cough.
- SEVERAL CASES OF CONSUMPTION OF THE BOWELS have derived great benefit from Liquor Carnis.
- 8. CASE OF PHTHISIS PULMONALIS. Improving with Liquor Carnis; feels stronger.

W. H. WRIGHT, L.R.C.P.I. and L M., M.R.C.S., Eng , L S A ,
Medical Officer of Heath; Medallist in Medicine, Surgery,
Anatomy, Physiology, Chemistry, &c.

Disease	Doctor	City
Cancer of the Pylorus Melancholia ; Marasmus Intestinal Cancer Gastric Ulcer Impaired Digestion Dyspepsia and Anæmia Stricture of the Oesophagus Strangulatia Femoral Hernia Ulcer of Stomach	Macdowell Hurley, J Beale, G. B Brabazon, A. B Wood, A. H Higgins, G. H Woollcombe	Liverpool Carlow Asylum Bath South Tottenham Bath Oxford Street W. Kensington Pk. Plymouth Cavendish Square

We might go on quoting, but space does not permit.

NURSING.

2000000

"It seems to be getting the custom for women not to nurse their own babies, but surely such a custom would be a most unnatural one, and one which should not be in any way encouraged. The struggles of life, troubles, and other causes, it is true, often deprive mothers of what would indeed be to them a privilege and a labour of love. But other women prefer the calls of society to the calls of nature, and thus the number of bottle-babies is increased. With all these cases we have nothing to do at present, but turn rather to help those who are feeding their own infants. Diet is, of course, of very great importance; it should be abundant, simple, and nutritious, and all rich and stimulating articles of food should be avoided. A very excellent preparation for use at this time is *Caffyn's Malto Carnis, which contains a large amount of nourishment stored in a very small space. It has all the properties of a perfect food, as well as the stimulating properties found also in beef-tea and the various extracts of meat. It may be eaten cold, or taken hot as beef-tea. It agrees very well with the baby; and, in fact, when the time comes for weaning the child, we would strongly advise that a similar preparation, Caffyn's Liquor Carnis, be still administered in the milk, as it strengthens the child, supplying it with an easily-digested food, and preventing rickets and ailments of that nature. In addition to good food, a nursing woman should be particular in taking a moderate amount of exercise; the more the mother and child are in the open air, if the weather be reasonably fine, the better it is for both."-Excerpt.

* "Caffyn's Malto-Carnis consists of two-thirds (66 per cent.) of Caffyn's Liquor Carnis, uncooked juice of beef,' in combination with Extract of Malt and Cocoa. Dyspeptic persons who have been recommended to eschew tea would do well to give Caffyn's Malto-Carnis a trial, and in other and similar diseased conditions the preparation will doubtless prove useful."—The Medical Press.

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12. Ol. Copaibæ, min. 5 ,,	6d.	10d.	1/6	12/-
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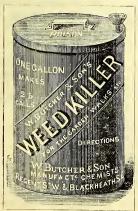
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Elegant Veterinary Pharmacy.

FLETCHER'S PATENT.

No. 4.—Alterative Balls, 2/ per doz. Per gross B. Aloes Barb. . . . 11 dram
Antim. Tart. . . 1 dram
Saponis . . . 2 drams 2 drams Mass. Commun. O.S.

No. 22.-Anodyne Balls, 4/6 per doz. R Pulv. Opii ... 1 dram Chlora'. Hydrat. ... 1 dram Ammon. Carh. ... 2 drams Mass. Commun. Q.S.

No. 5 .- Astringent Balls, 2/ per doz. B. Ext. Catechu . . 1 dram Pulv. Cinnamomi . 1 dram Mass, Commun Q.S.

No. 12 .- Condition Balls, 2/ per doz. Anoes Barb. 1½ dram
Antim, Tart. ½ dram
Potass, Nit. dram dram dram dram dram dram R Aloes Barb. Potass, Nit. ... Antim. Snlph. 1 dram . ½ dram . 1 scruple . 1 dram . 1 dram Pulv. Resinæ " Pip. Cayenne " Gentian. . . po. Mollis Theriacese, Q.S.

No. 23 .- Condition Balls, 2/ per doz, Formula as No. 12, Aloes omitted. 20/

No. 6.-Cordial Balls, 2/ per doz. R. Pulv. Zingih. .. , Gentian. 3 drams 20/ Theriacem, Q S.

No. 7.-Cough Balls, 2/ per doz. Aloes Barb. . . 1 dram 20/ Pulv. Digitalis . . . 1 dram Potass. Nit . . . 2 dram R Aloes Barb. Mass. Commun. Q.S.

No. 16.-Cough Balls, 2/ per doz.

No. 17 .- Cough Balls, 2/ per doz. Mass. Commun. Q.S. 2 drams

No. 21 .- Cough Balls (Chlorodyne)

3/3 per doz. R Chlorodynum 2 drams 33/ Ext. Belladonnæ Camphoræ dram Mass. Commun. Q.S.

Dear Sirs .- I beg to say that the Duraplastic Ball supplied to me by your firm answer all the advantages claimed for

I am, yours faithfully J. F. SIMPSON, F.R.C.V.S.

Grantham Veterinary Infirmary.

I have much pleasure in certifying that I have used Wylcys & Co.'s Patent Duraplastic Horse Balls for some considerable time. I have used for some considerable time. I have found them universally efficacions, pleasant to administer, quick in action, and in every way preferable to the old-fashioned paper-covered bolus of our forefathers. BEN. H. BUSSELL, F.R.C.V.S.

Stratford-on-Avon.

Sirs,—I can testify to the thorough therapeutic action of your patent Duraplastic Balls, and I prefer them to the old-fashioned balls on account of their easiness to deliver to the patient, and also of their remaining of the proper consistency, which I consider most heneficial. I am, Sirs, yours truly.

JNO. JAS. CROWHURST, M.R C.V.S.L.

Hertford Street, Coventry,

Dear Sirs,-I think the Duraplastic Horse Balls a very good Dear Sits,—I think the Duraplastic Horse Bails a very good invention. They save no end of trouble, and are always clean, keep well, and act satisfactorily. The Physic Balls I and very reliable. You asked me some time ago about some Physic Balls, and as I have not had occasion to blame any I have used for non-acting, I thought I would just mention the fact.

Yours faithfully, WM. DALE, M.R.C.V.S.

From T. Blakeway & Son.

Veterinary Surgeons, Stourbridge. Dear Sirs,-We should be obliged if you would kindly forward us at your earliest converience five gross of your Patent Dura-plastic Physic Balls. The coating of these balls we consider a very elegant preparation, and from its smoothness, coupled with the shape in which the halis themselves are made up, we find them particularly easy of administration, and the chances of their being coughed back are reduced to a minimum.

Faithfully yours, JAMES BLAKEWAY.

Gentlemen .- I have been using your Duraplastic Horse Balls

for several months, and am very pleased with them. I find that to a single-handed practitioner they are invaluable.

Yours truly, HARVEY COLLETT, M.R.C.V.S.

No. 8 .- Diuretic Balls. 1/9 doz. Per gross. P. Pulv. Resin. .. 21 drams 24 drams Potass. Nit. Sapo. Q.S.

9.-Fever Balls. 2/doz. R Antim. Tert. . . 1 dram 20/ Potass, Nit. Mass, Commun. QS.

No. 1 .- Physic Balls. 2/doz. .. 4 drams 20/ Aloes Barb. No. 2 .- Physic Balls. 2/6 doz. Aloes Barb, .. . 5 drams 25/ No. 3.-Physic Balls. 2/9 doz. .. 6 drams 27 Aloes Barb. ..

No. 18 .- Physic Balls. 3/ doz. .. 7 drams 30/ Alces Barb. .. No. 19-Physic Balls. 3/6 doz.

Aloes Barh. .. 8 drams 36/ No. 15 .- Stimulating Balls. 2/ doz. R Ammon, Carb. . . 2 drams 20/ Aloes Barb. . . 1 dram

.. 1 dram .. 2 drams .. 1 dram .. ½ dram Pulv. Gentian. . . Zingib. .. Camphore Theriaceæ, Q.S. No. 24 .- Stimulating Balls. 2/ doz.

Formula as No. 15. Aloes omitted 20/ No. 10 .- Tonic Balls. 2/ doz.

| R. Ferri Sulph. Par. | 1\frac{1}{2} dram | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ | 20/ No. 11 .- Tonic Balls. 1/9 doz.

R Cupri Sulph. . . 1 dram
Pulv. Zingib. . . 1 dram
Mass. Commun. Q.S. 18/

No. 20.-Tonic Balls (Quinine).

Ferri Sulph. . . . 1 ser.
Ferri Sulph. 1½ dram
Pulv. Zingib. 1½ dram
Exc Gentian. . . . 2 drams
Mass. Commun. Q.S.
No. 13.—xxx R Quininæ Sulph...

No. 13. - Worm Balls. 2/6 doz. R Calomel 2 scr. Aloes Barb. . . . 3 drams Mass, Commun, Q S.

No. 14.-Worm Balls. 5/ doz. R Aloes Barb. . . . 2 drams 50/ Ferri Sulph. . . . 2 drams 2 drams 1 dram .. Ol. Filicis Maris Syrup. Q.S.

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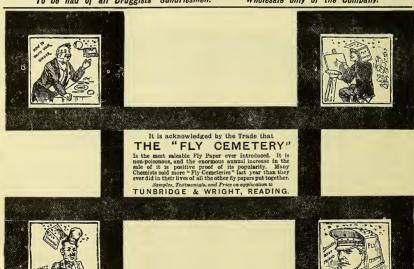


We hereby certify that ne trace of any of the ingredients of the pot can be discovered in either of the ointments, and further that the pots themselves were found not to have been acted on at all; and we further consider 'Stipendum' admirably adapted for such pharmacentical preparations.

Signed, C. T. KINGZETT, F.I.O., F.C.S. (Ex Vice-President Society of Public Analysist) R. H. HARLAND, F.I.C. F.O.S. (Public Analyst)."

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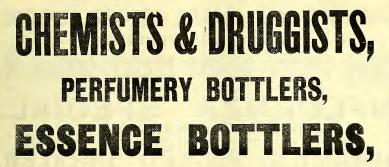
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c. f. "Dermatologische Studien," Second Series, Vol. I. for 1889, and also "Volkmann'sche Sammlung Klinischer Vorträge," New Series, Vol. IV. 1896.]

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